ISSN 0043-17

Weed Abstracts

1987 VOLUME 36 ANNUAL INDEXES

C.A.B. INTERNATIONAL
INSTITUTE OF ENTOMOLOGY
LIBRARY
26 JUL 1988
EU 666

PUBLISHED BY C·A·B INTERNATIONAL

C·A·B INTERNATIONAL
Wallingford, Oxon, OX10 8DE. UK
Telephone: Wallingford (0491) 32111
Telex: 847964 (COMAGG G) Fax: (0491) 33508
Telecom Gold/International Dialcom: 84: CAU001
Director General: Don Mentz BAgrSc. BEcon
Director, Information Services: J.R. Metcalfe MA. PhD. DIC. DTA
Director, Systems Division: J.H. Gilmore BSc. MACS
Deputy Director, Information Services: C.P. Ogbourne BSc. PhD
Head, Marketing & Sales Division: A.J. Woodcock

Weed Abstracts

is a monthly journal prepared by the
C·A·B INTERNATIONAL
BUREAU OF CROP PROTECTION

Managing Editor
P. R. Scott, PhD

Scientific Information Officers
V. E. T. M. Ashworth, BA
P. Basu, BSc
E. D. L. Brooks, BAgr
S. C. Brown, BA
J. A. Brunt, MSc
T. M. Codd, BSc
H. E. Gostick, BSc
J. J. Larkham, BA
J. L. Mayall
T. S. Robertson, BSc
S. F. Siddiqi, BSc
G. A. Viney, MSc
A. M. Whittaker, MSc

Editorial Advisory Board
D.S.H. Drennan (Reading, UK)
S. Matsunaka (Kobe, Japan)
K. Moody (Manila, Philippines)
T.H. Thomas (Long Ashton, UK)

The Bureau of Crop Protection (CBCP) is one of 11 Bureaux belonging to the Information Services of C·A·B International, a not-for-profit, inter-governmental organization which exists to provide information, scientific and development services for agriculture and allied disciplines throughout the world.

CBCP also prepares *Review of Applied Entomology, Series A, Agricultural; Review of Plant Pathology; Helminthological Abstracts; Series B, Plant Nematology;* and *Plant Growth Regulator Abstracts.*

For further details of the whole range of C·A·B International publications and services see back cover.

Orders and enquiries concerning current subscriptions and back numbers should be sent to:

Marketing & Sales Division,
C·A·B International,
Wallingford, Oxon, OX10 8DE, UK
Telephone: Wallingford (0491) 32111

Disclaimer
The information contained herein, including any expression of opinion and any projection or forecast, has been obtained from or is based upon sources believed by us to be reliable but is not guaranteed as to accuracy or completeness. The information is supplied without obligation and on the understanding that any person who acts upon it or otherwise changes his/her position in reliance thereon does so entirely at his/her own risk.

C·A·B International does not accept responsibility for any trade advertisement included in this publication.

Weed Abstracts

Volume 36

Prepared by

C·A·B INTERNATIONAL
BUREAU OF PASTURES AND FIELD CROPS

1987

ISSN 0043-1729

© C·A·B International, 1988

All rights reserved. No part of this publication may be reproduced in any form or by any means, electronically, mechanically, by photocopying, recording or otherwise, without the prior permission of the copyright owner.

published by

C·A·B International
Wallingford,
Oxon OX10 8DE. UK.

The information contained herein, including any expression of opinion and any projection or forecast, has been obtained from or is based upon sources believed by us to be reliable but is not guaranteed as to accuracy or completeness. The information is supplied without obligation and on the understanding that any person who acts upon it or otherwise changes his/her position in reliance thereon does so entirely at his/her own risk.

printed by
Unwin Brothers Ltd., The Gresham Press, Old Woking, Surrey, UK.

C·A·B INTERNATIONAL

C·A·B INTERNATIONAL (CABI), formerly the Commonwealth Agricultural Bureaux, is a cooperative not-for-profit organization owned, administered and financed by member governments. It was established in 1928, currently has 29 members, and has the status and privileges of an international organization in the UK. A new treaty-level constitution, giving CABI the status of an Inter-Governmental Organization, has received the necessary ratification by Member Countries and is now in the process of being registered with the U.N.

CABI's organizational structure comprises the Review Conference of member governments, which meets every five years; the Executive Council, with one representative from each member government, which meets four times per year; and the Directorate, including CABI Headquarters, its 4 Institutes and 11 Bureaux. The Director General is the chief executive, controlling the 410 staff, two thirds of whom are at managerial or professional level, through three Directors, for Information, Scientific and Administrative Services.

The organization exists to provide information, scientific and development services for agriculture and allied disciplines throughout the world.

INFORMATION SERVICES

The chief function of the Information Services is to provide ready access to published information on research in agriculture and allied disciplines, including rural development.

Over 100 scientists/linguists in CABI's eleven Bureaux, each one specialising in a particular subject area, scan the world literature, select the significant items, and prepare an informative abstract of each which is entered into the CAB ABSTRACTS bibliographic database. With some 2 million records in the database since 1973, and 3 million more in printed journals back to 1930, the total archive provides a unique encyclopaedic resource of unsurpassed reliability and quality.

The CAB ABSTRACTS database is publicly accessible online from major international online vendors. It is used to provide current awareness and retrospective information services in hard copy and machine-readable form. Chief among these are 46 printed abstract journals, which are taken by 10,000 subscribing organizations worldwide. New journals are started in response to changing users' needs or if sponsors guarantee the circulation. Users needing more specific information may select outputs that match their particular requirements, helped if necessary by CABI's subject experts; outputs are supplied as magnetic tape, computer printout, microfiche or floppy disk. The database is also available for testing on optical disk (CD-ROM), a new technology ideally suited to developing countries. To complete the service, photocopies of original articles are provided on request through the CABI Library Services.

Other functions of the Information Services include compilation of specialized databanks and directories, publication of primary journals, authoritative reviews and books, and training in information transfer for librarians, documentalists and information specialists.

SCIENTIFIC SERVICES

The Scientific Services of CABI are conducted by four Institutes, which provide an international service on pest identification and management. They deal with insect pests, fungal and bacterial agents, and human, animal and plant parasites and with all aspects and types of biological control of plant pests.

CAB International Institute of Entomology (CIE)

CIE provides an identification service for insects, mites and other arthropods, especially species that are of actual or potential importance as pests, parasitoids, predators and pollinators or are otherwise relevant to agriculture, forestry or related subjects. Contract research is also undertaken in these fields. The Institute's taxonomists work in the British Museum (Natural History) where they have access to the Museum's 23 million reference specimens of insects and mites, an incomparable aid to authoritative identifications and research on arthropod classification.

CAB International Mycological Institute (CMI)

CMI is the largest centre for systematic mycology in the world and provides a service for the identification of filamentous fungi and plant-pathogenic bacteria. It has about 300,000 dried reference specimens, a culture collection of more than 12,500 isolates, and extensive library, a Biodeterioration and Industrial Services Laboratory, a Biochemical Laboratory, and a Plant Pathology Liaison Unit. The Institute provides a wide range of consultancy and contract services for plant pathologists and industry. It incorporates the UK National Collection of Fungus Cultures and the Biodeterioration Centre.

CAB International Institute of Parasitology (CIP)

CIP provides an identification service for plant-parasitic and entomophilic nematodes, and helminth parasites of animals and man. The reference collections contain over 65,000 specimens, and an extensive specialist library is maintained. The Tropical Plant Nematology Advisory and Research Unit provides practical advice on plant-parasitic nematodes and their control worldwide, and the Institute also houses the WHO Filarial Reference Collection.

CAB International Institute of Biological Control (CIBC)

CIBC provides information and advice on biological control, undertakes research and implementation of programmes on biological control of major pests and weeds, and participates in integrated pest management programmes in association with other agencies. It has its headquarters in the UK but operates also from stations at Delémont, Switzerland; Rawalpindi, Pakistan; Nairobi, Kenya; and Curepe, Trinidad, West Indies.

All four Institutes carry out research, and offer a wide range of training activities from postgraduate studentships to special training courses both in the UK and abroad.

DEVELOPMENT SERVICES

The Development Services Group was established in 1986 to provide a sharper focus for CABI's consulting activities. It draws heavily on the unique scientific expertise and information resources available in the CABI Institutes and Bureaux, and its activities are backed by nearly sixty years of CABI involvement in science and world agriculture.

The Development Services offer practical advice and assistance on many pest-related or environmental problems in agriculture. Specific services include:

— project appraisal
— advice in a range of scientific disciplines
— research supervision
— research evaluation
— project implementation.

These services are offered in situations ranging from short-term individual consultancies to project components and major development projects. The current focus is on:

— integrated pest management programmes
— national crop protection services
— pest/disease identification and control
— crop-orientated pest and disease surveys.

One component of these activities that can be extended to any branch of agriculture or development is the provision of a comprehensive information service, involving expert review and analysis of all relevant literature.

HEADQUARTERS SENIOR STAFF, DIRECTORS AND OFFICERS-IN-CHARGE OF INSTITUTES AND BUREAUX OF C·A·B INTERNATIONAL

Headquarters

C·A·B International
Wallingford, Oxon. OX10 8DE, UK
Telephone: (0491) 32111
Telex: 847964 (COMAGG G)
Telecom Gold/Dialcom: 84: CAU001
Fax: (0491) 33508

Director General: Don Mentz BAgrSc, BEcon
Director, Information Services: J. R. Metcalfe MA, PhD, DIC, DTA
Director, Scientific Services: D. J. Greenland MA, DPhil, DAgSc, FIBiol
Director, Administrative Services: T. Martin FCA
Deputy Director, Information Services: C. P. Ogbourne BSc, PhD
Head, Systems Division: J. H. Gilmore BSc, MACS
Head, Marketing & Sales Division: A. J. Woodcock
Assistant Director, Administrative Services: L. D. Poole MBE
Chief Accountant: J. J. Wason ACCA

*Information Services**

Bureau of Agricultural Economics
Managing Editor: Miss M. A. Bellamy BSc, DipAgricEcon, MIInfSci

Bureau of Animal Breeding and Genetics
Managing Editor: [1]J. D. Turton BSc, MRCVS, DTVM

Bureau of Animal Health
Managing Editor: G. D. Phillips BSc, BVSc, PhD, MRCVS

Bureau of Dairy Science & Technology
Managing Editor: P. D. Wilson BA, DPhil

Forestry Bureau
Managing Editor: K. M. Becker BS, PhD

Bureau of Horticulture & Plantation Crops,
East Malling Research Station, Maidstone, Kent ME19 6BJ, UK (until April 1988).
Managing Editor: K. K. S. Bhat BSc, MSc, Docteurès Sciences

Bureau of Nutrition, Rowett Research Institute, Bucksburn, Aberdeen AB2 9SB, Scotland, UK
Managing Editor: D. J. Fleming BSc, MSc, MIBiol

Bureau of Pastures & Field Crops
Managing Editor: [2]P. Wightman BSc

Bureau of Plant Breeding & Genetics,
Department of Applied Biology, Pembroke Street, Cambridge CB2 3DX, UK (until May 1988).
Director: Miss O. Holbek BSc

Bureau of Soils
Managing Editor: B. Butters MSc, DipAgr, DTA, DIC, ARCS

Bureau of Crop Protection
Managing Editor: P. R. Scott MA, PhD

Accessions Unit
Manager: Mrs S. P. Smith BA

Publications Unit
Manager: Mrs E. V. Storrie

[1]Also Chief Managing Editor (Animal Sciences)
[2]Also Chief Managing Editor (Plant Sciences)
*Headquarters address, unless otherwise indicated

Scientific Services

CAB International Institute of Entomology, 56 Queen's Gate, London SW7 5JR, UK. Tel: 01-584-0067/8
Director: K. M. Harris DSc, DipAgrSci, DTA

CAB International Mycological Institute, Ferry Lane, Kew, Richmond TW9 3AF, UK. Tel: 01-940-4086
Director: D. L. Hawksworth PhD, DSc, FLS, CBiol, FIBiol

CAB International Institute of Parasitology, 395A Hatfield Road, St. Albans, Herts. AL4 0XU, UK. Tel: St. Albans (0727) 33151
Director: R. L. J. Muller BSc, PhD, FIBiol

CAB International Institute of Biological Control, Imperial College, Silwood Park, Ascot, Berks SL5 7PY, UK.
Tel: Ascot (0990) 28426
Director: D. J. Greathead BSc, ARCS, PhD, DSc, FIBiol

Caribbean and Latin American Station, Gordon St., Curepe, Trinidad, West Indies
Scientist-in-Charge: to be appointed

European Station, 1 Chemin des Grillons, CH-2800, Delémont, Switzerland
K. P. Carl DNatSc (Entomologist-in-Charge)

Indian Station, Post Bag 2484, Hebbal Agricultural Farm, P.O. Bangalore 560024, India
M. J. Chacko MSc, PhD (Entomologist-in-Charge)

Kenya Station, c/o Kenya Agricultural Research Institute, P.O. Box 30148, Nairobi, Kenya
M. J. W. Cock BSc, ARCS, PhD, DIC (Entomologist-in-Charge)

Pakistan Station, PARC-CIBC Station, P.O. Box 8, Rawlpindi, Pakistan
A. I. Mohyuddin MSc, PhD (Entomologist-in-Charge)

Malaysian Station, CIBC, c/o Ebor Research, P.O. Box 202, Bathtiga, Selangor, Malaysia
A. C. P. Ooi, BSc, MSc (Entomologist-in-Charge)

Development Services

CAB International Development Services, Farnham House, Farnham Royal, Slough SL2 2BN, UK
Head: D. L. Heydon, BSc

C·A·B INTERNATIONAL

EXECUTIVE COUNCIL — NOVEMBER 1987

Member	*Representing*
K. TAVOLA (Chairman)	Fiji
S. UNDENGE	Zimbabwe
DR. D. W. F. SHANNON	United Kingdom
M. CHAPPELL	Canada
DR MILTON MOORE	Australia
P. BAIGENT	New Zealand
S. N. RAO	India
A. C. GOONESEKERA	Sri Lanka
F. A. TSEGAH	Ghana
MRS ZAINUL HAWANI AHMAD	Malaysia
N. C. ONIANWA	Nigeria
J. PAPANICOLAOU	Cyprus
MRS A. BALLAH-CONTEH	Sierra Leone
MRS S. N. NYANDUGA	Tanzania
F. McGILCHRIST	Jamaica
S. KANGAL	Trinidad & Tobago
B. J. OCANA	Uganda
C. M. KANGÉ	Kenya
P. KACHIMERA	Malawi
S. MUTONDO	Zambia
V. S. NDIAYE	The Gambia
C. J. E. BARKER	Guyana
C. MOGOTSI	Botswana
A. BOOLAKY	Mauritius
A. B. M. AHSANULLAH	Bangladesh
R. DEMERITTE	The Bahamas
A. P. TABERENG	Papua New Guinea
(to be nominated)	Solomon Islands
DANIAL BIN HAJI HANAFIAH (resides in Brunei)	Brunei Darussalam
R. J. WALSGROVE	Dependent Territories
DR. G. THYAGARAJAN (Observer)	Commonwealth Science Council

C·A·B INTERNATIONAL

LIAISON OFFICERS — NOVEMBER 1987

Contributing Country	*Liaison Officer*	*Address*
United Kingdom	Mr. F. G. Raymond	Head of Branch A Research and Development Requirements Division. Ministry of Agriculture Fisheries and Food, Whitehall Place, London SW1A 2HH
Canada	Dr. R. Trottier	Research Coordinator (Protection) Research Branch, Agriculture Canada, Sir John Carling Bldg. Ottawa, Ontario, KIA OC5
Australia	Dr. J. B. Allen	Commonwealth Scientific & Industrial Research Organization, P.O. Box 225, Dickson, ACT 2602
New Zealand	Mr. C. M. Palmer	Director (International Science) Department of Scientific & Industrial Research, Private Bag, Wellington
India	Dr. N. S. Randhawa	Director-General, Indian Council of Agricultural Research, Krishi Bhavan, New Delhi, 110001
Sri Lanka	Dr. I. Goonewardena	Director of Agriculture, Dept of Agriculture, Peradeniya
Ghana	Executive Chairman	Council for Scientific & Industrial Research, P.O. Box M32, Accra

Malaysia	Mr Mohamed Yasin Saleh	Principal Asst. Secretary, International Division, Ministry of Agriculture, Jalan Mahameru, Kuala Lumpur.
Nigeria	The Director	Agricultural Sciences Research Dept. Moor Plantation, Private Mail Bag No. 5382, Ibadan
Cyprus	Dr. A. Louca	Director-General, Ministry of Agriculture & Natural Resources, Nicosia
Sierra Leone	Senior Lecturer	Njala University College, University of Sierra Leone, PMB. Freetown
Tanzania	Director of Agriculture	Ministry of Agriculture, P.O. Box 9071, Dar-es-Salaam
Jamaica	Dr. R. J. Barker	Research & Development Division, Ministry of Agriculture, P.O. Box 480, Kingston 6
Trinidad & Tobago	Chief Technical Officer (Crop Research)	Ministry of Agriculture, Lands and Food Production, Research Div. Central Experiment Station, Centeno, P.O., Arima, Trinidad & Tobago
Uganda	Permanent Secretary	Ministry of Agriculture & Forestry, P.O. Box 102, Entebbe
Kenya	W. W. Wapakala	Ministry of Agriculture, P.O. Box 30028, Nairobi
Malawi	Chief Agricultural Research Officer	Ministry of Agriculture & Natural Resources, P.O. Box 30134, Capital City, Lilongwe 3
Zambia	Mr. Edward Lumande Librarian	Mount Makulu Central Research Station, PO Box 7, Chilango
The Gambia	Permanent Secretary	Ministry of Agriculture & Natural Resources, The Quadrangle, Banjul
Guyana	Dr Michael Granger Director	National Agricultural Research Institute, Georgetown, Guyana
Botswana	Permanent Secretary	Ministry of Agriculture, Common Service Division, Private Bag 0028, Gabarone
Mauritius	K. Lutchmeenaraidoo	Chief Agricultural Officer, Agricultural Service, Reduit
Fiji	Permanent Secretary	Ministry of Agriculture, Fisheries and Forests, Rodwell Road, Suva
Bangladesh	The Executive Vice-Chairman	Bangladesh Agricultural Research Council, New Airport Road, Farm Gate, GPO Box 3041 Dhaka, Bangladesh
The Bahamas	Director of Agriculture	Ministry of Agriculture, Fisheries & Local Government, P.O. Box 3028, Nassau
Papua New Guinea	The Secretary	Dept of Primary Industry, P.O. Box 417, Konedobu
Zimbabwe	Mr. R. J. Fenner	Ag. Director, Dept of Research & Specialist Services, Ministry of Agriculture, P.O. Box 8108, Causeway, Harare
Solomon Islands	Mr. Ezekiel Walaodo	Under Secretary (Agriculture) Ministry of Agriculture & Lands, P.O. Box G13, Honiara
Brunei Darussalam	Dr. Morni bin Othman	Dept of Agriculture, Ministry of Development, Negara, Brunei Darussalam.

Abbreviations

a.e.	acid equivalent	LC	lethal concentration
a.i.	active ingredient	LD	lethal dose
conc.	concentrated	OM	organic matter
concn	concentration(s)	post-em	post-emergence
DM	dry matter	pre-em	pre-emergence
DW	dry weight	RH	relative humidity
e.c.	emulsifiable concentrate	SEM	scanning electron microscope
ED	effective dose	TEM	transmission electron microscope
EM	electron microscope	ULV	ultra-low volume
FW	fresh weight	w.p.	wettable powder

Compounds not yet given an approved name will be indexed under their chemical name. The common names given in the index will be in accordance with those listed for use in *Weed Abstracts*.

Use of a.i., a.e. etc. Unless otherwise stated, rates of application for growth-regulator herbicides such as 2,4-D, MCPA, fenoprop, dalapon, the benzoics etc. are given as the acid equivalent. Rates for other herbicides such as the ureas, carbamates, triazines, etc. are given as the active ingredient. Rates for the bipyridyls refer to the cation only.

Languages

An initial capital denotes the language of the paper, an initial small letter the language of the summary.

Afrikaans	Af	French	Fr	Norwegian	No
Albanian	Al	German	De	Persian	Pe
Arabic	Ar	Greek	Gr	Polish	Pl
Azerbaijani	Az	Hebrew	He	Portuguese	Pt
Bulgarian	Bg	Hungarian	Hu	Romanian	Ro
Byelorussian		Icelandic	Is	Russian	Ru
(White Russian)	Be	Indonesian	In	Serbo Croat	
Chinese	Ch	Interlingua	Ia	(either script)	Sh
Czech	Cs	Italian	It	Slovak	Sk
Danish	Da	Japanese	Ja	Slovene	Sn
Dutch	Nl	Korean	Ko	Spanish	Es
English	En	Latin	La	Swedish	Sv
Esperanto	Eo	Latvian	Lv	Tajik	Ta
Estonian	Ee	Lithuanian	Li	Turkish	Tr
Finnish	Fi	Macedonian	Ma	Ukrainian	Uk
Flemish		Malay & Bahasa			
(as Dutch)	Nl	Malaysia	My		

C·A·B INTERNATIONAL BUREAU OF PASTURES AND FIELD CROPS

C·A·B International, Wallingford, Oxon OX10 8DE, UK Tel. Wallingford (0491) 32111

The C·A·B International Bureau of Pastures and Field Crops was located at the Institute for Grassland and Animal Production, Hurley, until August 1987 when it was relocated at C·A·B International's new headquarters at Wallingford.

C·A·B International Bureau of Pastures and Field Crops has in the past prepared records for three monthly main journals, *Weed Abstracts, Field Crop Abstracts* and *Herbage Abstracts.* These journals cover world scientific literature on weeds, weed control and herbicides, annual field crops, pastures, herbage crops and rangelands and provide a comprehensive guide to current scientific developments and a key to literature published in the past. Commencing with the 1988 volumes the responsibility for the preparation of the records for *Weeds Abstracts* will be assumed by the C·A·B International Bureau of Crop Protection which is also located at Wallingford.

Scope of *Weed Abstracts:* Weeds and weed control in all types of crop and non-crop situations, biology of weeds, herbicide chemistry, property, analysis and toxicology, application of herbicides and other related aspects. A full listing of aspects dealt with is given in the contents page.

The Bureau is prepared, on request, to undertake literature searches and to compile bibliographies on subjects within its scope.

1987 Bureau Staff List

Managing Editor
P. Wightman, BSc

Assistant to Managing Editor
J. Armstrong, MA, DipAgric, DTA

Scientific Information Officers
Vanessa E.T.M. Ashworth, BA
R. Boyce, BSc, MIInfSc
Theresa M. Codd, BSc
Angela M. Hall, PhD
Rosemary E. Hill, BSc
Susan E. Hill, BSc
Janet M. Kisz, BSc
M.S. Mahal, PhD
Heather M. McCalman, PhD
J.L. Mayall
N.J. Prior, BSc, MIInfSc
Ruth E. Wilson, BSc, BAgr

Consultant Director
J.H.D. Prescott, PhD, FIBiol

Other Abstractors

C.H. Fawcett, PhD; M.F. Fay, BSc; M.R. Hails, BSc; P.C. Hodgson, MA; Mrs H.E. Jones, BSc; R.J. Lewington, PhD; P.R. MacCrimmon, BSc; Mrs V.J. Scougal, BSc; Mrs J.E. Shakespear, BSc; Mrs M. Turton, MA; Mrs E.M. Vincent, PhD; Chinese Academy of Agricultural Sciences.

Weed Abstracts

CONTENTS VOLUME 36

Generalia	1	35	71	103	141	181	237	275	309	345	373	401
Annual field crops	1	35	71	103	141	181	238	275	309	345	373	401
Cereals	1	35	71	104	141	182	238	275	309	345	373	401
Legumes	5	40	75	107	145	187	241	278	313	347	375	407
Root crops	6	42	76	108	148	188	242	280	315	348	376	409
Kale	–	–	–	–	–	–	–	–	–	348	–	–
Fibre and oil-seed crops	6	44	77	108	149	192	244	281	316	349	376	410
Other crops	7	44	77	110	150	193	244	–	316	349	377	411
Grassland and herbage crops	7	45	77	110	150	193	244	282	317	349	377	412
Cultivated grasslands and pastures	7	45	77	110	150	193	244	282	317	349	377	412
Legumes	–	45	77	110	151	195	245	282	317	349	–	413
Rangelands and rough grazings	8	–	–	110	151	196	245	283	317	349	377	413
Vegetable crops	8	45	78	111	151	198	246	283	318	350	378	413
General	8	45	78	111	151	198	246	283	318	350	378	413
Herbs	–	–	–	–	–	–	247	284	–	351	–	–
Ornamentals	9	47	78	112	153	199	247	284	318	351	378	415
Flowers, shrubs and trees	9	47	78	112	153	199	247	–	318	351	378	415
Lawns and turf	9	47	79	112	154	199	248	284	–	–	378	416
Fruit crops	9	48	79	113	155	199	248	284	318	351	378	416
Small fruits and vines	9	48	79	113	155	199	248	284	318	351	378	416
Tree fruits	10	49	81	113	155	200	248	–	319	351	379	416
Plantation crops	10	–	83	113	–	201	249	–	319	–	379	416
General	10	–	83	113	–	201	249	–	319	–	379	416
Other perennial crops	–	–	83	115	–	–	–	–	319	–	379	417
Forests	10	49	83	115	156	201	249	284	319	352	380	417
Woody weeds	12	–	–	116	158	204	–	286	320	352	381	417
Aquatic weeds	12	50	84	116	158	204	250	286	320	352	381	417
Other weeds	13	51	84	116	158	204	250	286	321	352	381	418
Miscellaneous	13	51	84	116	158	204	250	286	321	352	381	418
Non-crop situations	14	53	85	–	–	205	–	287	322	–	–	419
Poisonous weeds	14	53	85	117	159	205	250	287	322	353	382	419

Weed biology	15	53	86	117	159	205	251	288	323	354	382	419
Biology of weed cryptogams	15	–	86	117	159	–	–	288	–	–	382	–
Biology of phanerogamous weeds	15	53	86	117	159	205	251	–	323	354	382	419
Weed identification and taxonomy	17	54	87	121	162	208	252	290	325	355	383	422
Weeds in relation to their environment	17	55	87	121	163	210	254	290	325	355	384	422
Weed anatomy	–	–	90	125	–	217	259	296	329	–	–	425
Weed physiology (not in a herbicide context)	22	59	–	125	167	218	260	296	329	357	386	426
Parasitic weeds	22	59	90	125	168	219	261	297	330	357	387	426
Weed/predator/disease relationships	23	60	91	127	168	219	261	297	330	357	388	427
Biological control	23	60	92	128	169	220	263	298	331	358	390	427
Physiology	24	60	94	130	170	221	264	299	324	363	391	432
Herbicides	29	63	96	134	173	225	267	302	338	366	394	435
Chemistry and properties	29	63	96	134	173	225	267	302	338	–	394	435
Analysis and residues	29	63	96	134	173	226	267	302	338	366	394	435
Toxicology and environment	29	65	97	–	173	229	268	303	339	367	394	436
Soil relations	29	65	97	136	175	230	270	303	339	368	396	436
Application and machinery	30	67	98	137	177	232	272	306	342	369	397	438
Storage and stability	–	–	–	–	–	–	–	–	–	–	–	–
Other aspects	31	67	99	137	178	233	273	307	342	370	397	439
Organization	31	–	99	137	178	233	–	–	–	370	397	–
Approvals and legislation	32	67	99	138	178	233	273	307	342	370	–	439
Economics	32	67	99	138	178	233	273	307	343	370	397	439
Utilization	32	–	100	138	178	233	274	307	343	371	398	440
Miscellaneous	32	67	100	138	–	234	274	307	–	371	398	440
Reports	33	68	100	138	178	234	–	–	343	372	398	440
Conferences	33	68	101	138	179	234	274	307	343	–	398	440
Books	33	68	101	139	179	234	274	307	343	372	399	441

AUTHOR INDEX 443

SUBJECT INDEX 461

The New C·A·B International Bureau of Crop Protection

EDITORIAL NOTICE

The Bureau of Crop Protection has been created by bringing together information scientists in entomology, plant pathology, weed science and nematology. These specialists were formerly with the CABI Institute of Entomology (CIE), the CABI Mycological Institute (CMI), the CABI Bureau of Pastures and Field Crops (CBPFC), and the CABI Institute of Parasitology (CIP). The scientific staff are remaining at the Institutes.

The Bureau scans and abstracts relevant world literature on agriculture, biology and related topics in these four interrelated disciplines of crop protection. Strong links are to be retained with CIE, CMI, CIP and with the CABI Institute of Biological Control (CIBC). Thus the Bureau combines broadly based scientific expertise to provide a high-quality information service for the whole range of crop protection sciences.

Dr. Peter Scott is the Bureau's Managing Editor. He was formerly a plant pathologist at the Plant Breeding Institute, Cambridge, and remains Senior Editor of *Plant Pathology*, the journal of the British Society for Plant Pathology.

As part of CABI's Information Services, the Bureau of Crop Protection is one of 11 Bureaux covering the whole of agriculture and related sciences, and contributing to the CAB ABSTRACTS bibliographic database. The database is the source of records for publication in the Bureau's four main abstract journals. These give emphasis to crops and economically important plants.

The four main journals are: *Review of Applied Entomology, Series A, Agricultural; Review of Plant Pathology; Weed Abstracts; Helminthological Abstracts, Series B, Plant Nematology.*

For each main journal an Editorial Advisory Board of experts in the appropriate field is being appointed. They will advise the Bureau on content and coverage. In addition, the Bureau compiles a specialist journal: *Plant Growth Regulator Abstracts.*

Comments from users of the Bureau's information services are always welcomed and should be addressed to: The Managing Editor, Bureau of Crop Protection, C·A·B International, Wallingford, OX10 8DE, UK.

John Metcalfe

John R. Metcalfe, MA, PhD, DIC, DTA
Director, Information Services
C·A·B International

December 1987

AUTHOR INDEX

Aalders, A. J. G. 1072, 3056, 3664
Aarts, H. F. M. 851, 1615, 1621
Abada, M. 2432
Abate, T. 3421
Abaychi, J. K. 3053
Abdallah, M. M. F. 1882
Abdel-Hafeez, S. 3325
Abdel Halim, M. A. 3382
Abdel-Kader, M. K. H. 828
Abdel Malak, N. N. 3502
Abdel-Mallek, A. Y. 2940
Abdel-Rahim, A. M. 2863
Abdul Majid 2381, 3209
Abdul-Rassoul, M. S. 3079
Abdullaev, A. A. 1480, 3365-3366, 3369
Abdur Rashid 2059
Abe, H. 2228
Abe, M. 2473-2474
Abe, T. 1015
Abernathy, J. R. 147, 1638, 2870
Abo-El-Suoud, M. R. 3496
Abou-Taleb, E. M. 907
Abraham, C. T. 3494
Abrahamson, L. P. 976
Abramov, A. F. 612
Abu-Irmaileh, B. E. 3307
Abu-Zeid, A. A. 1082
Abud, J. K. 901, 1183
Abuereish, G. M. 1391
Achakzai, A. K. 2489
Achhireddy, N. R. 3120, 3122
Achireddy, N. R. 1324
Ackerson, R. C. 3214
Acuña, B. M. 3060
Adam, H. F. 502
Adamczewski, K. 282, 2700-2701, 3197
Adamiak, J. 2067
Adams, J. C. 3257
Adams, R. P. 1995
Addison, D. A. 395
Adebona, A. C. 133
Adema, D. M. M. 2323
Adil, K. M. Al- 2242
Adisarwanto, T. 2396
Adkins, S. W. 998, 3609
Afanas'ev, D. Ya. 2539
Afendulov, K. P. 1590
Afzal, M. 2381
Agaev, F. A. 948
Agamalian, H. S. 942, 3561
Agami, M. 160, 497
Agapov, V. I. 827
Agarwal, B. D. 1868
Agarwal, S. K. 3202
Agboola, A. A. 963
Aggarwal, V. D. 909
Agnello, A. M. 551
Agrawal, M. 1922
Agrawal, M. L. 2110
Ågren, G. I. 1029
Ahlawat, I. P. S. 2711, 2995
Ahliker, W. L. 1573
Ahmad, I. 16
Ahmad, M. 179, 2520
Ahmad, S. 16
Ahmed, K. 3240
Ahmed, N. 2341
Ahrens, J. F. 67, 69, 391, 679
Ahrens, W. H. 3741
Aiba, Y. 3348
Aibar Lete, J. 2120
Akamatsu, S. 2108
Åkerblom, M. 814
Akinyemiju, O. A. 2455
Akkari, K. H. 556, 903, 2281
Al-Adil, K. M. 2242
Al-Hasan, R. 1776
Al-Jassany, R. F. 2242
Al-Khesraji, T. O. 2223, 2729, 2850
Al-Mouemar, A. 3133
Al-Obaidy, S. Z. 3053
Al-Saghir, A. R. 3576
Al-Sahaf, N. A. 2729
Al-Shehbaz, I. A. 2790
Al-Vindi, I. 346
Al-Zubaidi, F. 3672
Alad'ina, Z. K. 3324
Alagawadi, A. R. 2617
Alam, L. R. 2495
Alam, M. K. 764-765
Alayo Dalmau, P. 1447
Albanese, R. A. 715
Alber, G. 512, 3681
Albright, J. W. 316
Alcaraz, G. 1758
Alcock, K. 2645
Alcock, R. 3167
Aldag, R. 1155, 2319
Alden, J. A. 910
Alejandra Herrero, M. 2963
Aleksandrova, L. P. 808, 3374
Alekseeva, S. A. 1320
Alex, J. F. 3116
Alexander, M. 241
Alexandri, A. A. 3783
Alfonso, H. A. 2772
Ali, A. D. 189, 2237
Ali, A. H. 159
Ali, A. M. 2677
Ali, H. A. 3337
Ali, H. C. 3208
Ali, M. 3553
Ali, S. A. 2110
Alison, M. W., Jr. 3234
Alkämper, J. 163, 1034
Allan, D. J. 1449
Allan, J. R. 3651
Allcoat, R. W. P. 594
Allen, E. B. 167, 2162
Allen, M. F. 2162
Allen, R. 2305
Allen, S. 1756
Alley, H. P. 2359, 2652
Allingham, Y. 2493
Alm, A. A. 2747
Almaguel, L. 776
Almarales, P. 35-37
Almodóvar-Vega, L. 3642
Alon, Y. 2433
Alonso, S. I. 2227
Alspach, L. K. 977
Altaf-ur-Rehman Rao 2976
Altenburger, R. 1889
Altieri, M. A. 1188, 3678
Alvarado A., R. 2678
Alvarez, N. 2691
Alviola, A. L., III 3343
Amadei, G. 3412
Amakiri, M. A. 561
Amarasekera, A. R. 2936
Ambăruș, S. 3014
Ambasht, R. S. 3063
Americanos, P. G. 3547
Ames, M. D. 2480
Amesz, J. 3430
Amick, e. N. 1921
Amick, E. N. 1927
Amnuay Tongdee 2394
Amor, R. L. 1022, 1841, 2528, 2599
Ampilogov, N. E. 2928
Amrein, J. 1911, 3395
Amrhein, N. 2595, 3129
Anan'eva, N. D. 245
Ananthacumaraswamy, A. 2936
Anders-Mackenzie, D. 152
Anders-McKenzie, D. 3074
Andersen, G. L. 850, 3682
Andersen, R. N. 2459-2460
Anderson, D. H. 1307, 1309, 3480
Anderson, D. L., Jr. 821
Anderson, E. J. 2885
Anderson, J. E. 2663
Anderson, J. J. 1886
Anderson, L. W. J. 104, 261, 453, 732, 2480
Anderson, M. D. 1560, 2966
Anderson, M. R. 1403
Anderson, R. C. 2479
Anderson, R. L. 302, 319, 1592
Andersson, G. 177
Andrade, M. A. de 2033
Andreev, N. G. 2081
Andreev, V. A. 2130
Andres, L. A. 3106
Andresová, J. 480
Andrews, C. 1016
Andrews, G. W. 1728, 1984
Andrews, L. 666
Andrews, M. 1030
Androcioli Filho, A. 75
Andujar, J. L. G. 1837
Angeles Figueredo, M. de los 2772
Angle, J. S. 3764
Annachhatre, A. P. 2949
Annappa, R. S. 328
Annon, M. R. 2850
Anstey, T. H. 2353
Antigua, G. 34
Antognini, J. 3410
Antonielli, M. 3656
Aoyama, I. 2165
Apahidean, A. 1289
Apley, K. L. 2664
Appanah, S. 3266
Appleby, A. P. 59, 435, 2884, 3409
Aranha, C. 482
Aratani, K. 2496
Araya, R. 2808
Archelos, D. 2554
Archibold, O. W. 1770
Arditti, J. 3360
Argel, J. P. 1281
Arjmand, M. 1934
Armstrong, J. F. 2283
Armstrong, T. F. 1989
Armstrong, T. R. 3040
Arnold, A. C. 2626
Arnold, G. W. 472
Arnold, W. E. 2390, 2623, 2667, 2713
Arntzen, C. J. 1121
Arp, W. 1406
Árpád, S. 2999
Arregocés, O. 139
Arruda, N. G. 932
Arsenault, D. 89
Arsenijević, M. 506
Arsenović, M. 96, 2753
Arthington, A. H. 2538
Arundel, A. 3394
Arundel, A. V. 1498
Arvidsson, T. 288-289, 3446
Arzybova, N. S. 3465
Asada, M. 2280
Asagami, K. 1435
Asai, W. 1323
Aseeva, N. N. 545
Ashford, R. 2026
Ashley, R. A. 377-378
Ashoub, M. A. 2689
Ashton, D. H. 2116
Ashton, F. M. 2500, 3359
Asian Institute of Technology. Division of Agricultural and Food Engineering 3184
Askew, M. F. 357
Aslam, Z. 2796
Aspidova, Zh. V. 870
Aswal, B. S. 1387
Asztalos, B. 2917
Atal, C. K. 846
Athar, M. 2381
Atias, M. 2635
Atkins, R. L. 1724, 1981
Atkinson, D. 667-668, 682, 685, 1507
Atkinson, T. 3165
Atty, M. A. 3208
Audsley, E. 2629
Auer, M. S. 1703
Auld, B. A. 2492, 2957
Aulestia, F. 2118
Aulio, K. 1441, 1801
Austin, J. R. 10
Australia, Bureau of Sugar Experiment Stations 3190
Australia, Commonwealth Scientific and Industrial Research Organization 1456
Australia, New South Wales, Department of Agriculture 273
Australian Centre for International Agricultural Research 3418
Avdeeva, N. F. 1134, 3367
Awad, A. E. 186
Ayeni, A. O. 3618-3619
Aymard, M. 213
Ayotte, R. 3136
Ayres, P. 19, 593
Ayres, P. G. 1865, 2869
Ayupova, A. T. 810
Azevêdo, D. M. P. de 2069
Azevedo, D. M. P. de 3055, 3484
Azpiazu, M. N. 3291
Babalonas, D. 3636
Bachthaler, G. 493, 1805
Bacon, C. G. 3265
Bacon, P. 990
Bacon, R. K. 298
Badr, A. 2585, 2890
Báez, J. 1353
Baez, J. 1430
Bagley, P. 664
Bahadir, M. 1522, 2087
Bahl, P. N. 3804
Bahler, C. C. 2414, 3385
Baig, M. A. H. 323
Bailey, A. G. 2622
Bailey, A. M. 1516
Bailey, B. A. 52
Bailey, J. A. 709-710, 712
Bain, J. M. 944
Bain, O. G. 1570
Baiocchi, A. 2437
Bairambekov, Sh. B. 1160
Baird, D. D. 2764
Baird, W. V. 1081
Bajwa, A. M. 2976
Baker, C. K. 304
Baker, D. B. 3387
Baker, J. B. 899
Baker, P. B. 1501
Bakh, N. 3731, 3737
Bąkowski, J. 3011
Baksa, J. 681
Bakshi, D. N. G. 1757
Bakumenko, L. A. 532
Bal, P. S. 2431, 3557
Balaban, V. D. 408
Balarin, I. 2248
Balasubramanian, A. 2619
Balciunas, J. K. 3697
Baldwin, F. L. 1235
Bálint, K. 3315
Bálint, K. E. 1385, 1398
Balke, N. E. 3732
Ballard, R. 3629
Ballaré, C. L. 2532
Ballesteros Aguiló, L. 3206

Balling, S. S. 766
Ballou, J. K. 2849
Balls, H. 487
Balneaves, J. M. 979, 1351
Balodi, B. 1400
Baltruschat, H. 1156
Balyan, R. S. 127-128, 2380
Banaras, M. 16
Bandeira, C. T. 2069
Bandoni, A. L. 1534
Bandyopadhyay, P. 2979
Banerjee, A. 149
Banik, S. 1778
Banks, P. A. 42, 240, 249, 473, 1243, 1547, 2462, 2817, 3156, 3172
Banks, R. B. 1956
Bansal, G. L. 721
Bányai, L. 1222
Barabás, K. 2291, 2295
Barabás, Z. 1222
Baranov, S. V. 2156
Baranyai, F. 1543
Barceló, J. C. 34
Bardalaye, P. C. 2288
Barfield, C. S. 2852
Barghigiani, C. 2496
Barker, M. A. 2588, 2881
Barker, T. C. 1187
Barkley, T. M. 1792
Barlow, J. N. 310
Barnard, D. R. 57
Barnes, J. P. 161, 1110
Barnett, A. G. 1022
Barnett, J. T., Jr. 1961
Barnett, W. W. 1710
Barney, R. J. 2233
Baron, J. J. 1116, 1706
Barón, M. 1128
Barralis, G. 446
Barreda, D. G. de 3406
Barrett, M. 30, 3030, 3217, 3724
Barrett, P. R. F. 106
Barrett, S. C. H. 1853, 2214, 2541
Barrion, A. T. 578, 3673
Barros, J. de A. I. de 3641
Barry, R. 759
Bart, A. G. 3708
Bartels, G. 1556
Baruah, M. 3770
Barug, D. 2323
Basabi Barua 2553
Bashaw, E. C. 937
Baskin, C. C. 996, 1761
Baskin, J. M. 996, 1761
Basler, E. 3124-3125
Bassett, I. J. 1020
Bassi, M. 3412
Bassi, P. K. 126, 2876
Basson, N. C. J. 3109
Bastide, J. 3158
Basuki 1018
Baszis, S. R. 2911
Batdorff, J. 692
Batel, W. 3754
Bateman, R. J. 344
Bates, M. R. 1229, 1231, 3507
Bauer, B. 1709
Bauer, S. C. 515, 3370
Bauèr, V. V. 411
Bauman, T. T. 2511, 2514, 3361
Bayer, G. H. 300
Baylan, R. S. 3201
Bazzaz, F. A. 2177, 2202
Beale, M. W. 3638
Bean, B. W. 2615
Bean, G. 1138
Beaty, P. R. 3586
Bebawi, F. F. 186, 503
Beck, J. 2371
Becker, J. 389
Becker, M. 1866
Beckett, J. B. 218
Beckett, T. H. 2509
Beer, P. R. de 3747
Beer, S. 734
Beerboom, A. 1577
Behaeghe, T. 54
Behki, R. M. 244
Behrens, R. 2494
Beier, R. C. 3033
Beitz, H. 3150
Bekech, M. 329
Belashova, I. G. 539
Belien, J. M. 1618
Bell, C. E. 1664, 2420
Bell, C. R. 125
Belles, W. S. 1668, 1709
Bellinder, R. R. 429, 1483
Bellman, S. K. 2988
Belluomini, P. 1639
Belov, G. D. 1035
Beltrão, N. E. de M. 2069
Ben-Ghedalia, D. 2469
Benada, J. 603, 876, 2029, 2649
Bendixen, L. E. 156, 2125, 2206
Benevides, N. 229
Benjamin, T. V. 3416
Benner, B. L. 2177
Bennet, S. S. R. 1531
Bennett, F. D. 3698
Bennett, G. W. 2956
Benoit, F. 2304
Benoit-Guyod, J. L. 2591
Bera, P. S. 2411
Beraru, C. 1604
Berbeciowa, C. 3298, 3328
Bercea, V. 1567
Bereznikov, G. A. 1813
Berg, K. 3069
Berg, T. 2224
Berger, A. 463
Berglund, D. R. 1036
Bergmannová, E. 1135-1136
Bergon, M. 2887
Berlin, Biologische Bundesanstalt für Land- und Forstwirtschaft 2002
Bernardi, M. 3791
Bernasor, P. C. 320
Berrios, D. 1634
Berry, A. M. 2833
Berry, R. E. 2740
Berthold, R. V. 1916
Bertić, B. 2164
Beshir, M. O. 3698
Besson, J. 209
Besson, J. M. 2774
Best, E. P. H. 101
Beste, C. E. 2085
Betz, H. G. 2056
Beuret, E. 451, 3246
Beurskens, J. E. M. 2298
Beversdorf, W. D. 1893, 3146
Bewick, T. A. 2735
Beyer, A. F. 152, 3074
Beyers, E. A. 1046
Bezuglov, V. K. 538
Bezus'ko, L. G. 2488
Bhagwan Singh 2683
Bhalla, L. P. 3242
Bhalla, P. L. 3216
Bhan, B. M. 3495
Bhan, V. M. 127-128, 2027, 2352, 2380, 2996, 3201, 3278, 3804
Bhandari, A. L. 1561
Bhardwaj, N. 1804
Bhardwaj, S. S. 3761-3762
Bhasharkar, D. B. 3326
Bhaskar, A. 3305
Bhatia, A. K. 846
Bhatia, R. K. 3591
Bhattacharya, K. 1778
Bhattacharyya, M. 461
Bhattacharyya, U. C. 1393
Bhatti, H. M. 1826
Bhatti, I. M. 323
Bhayan, B. S. 2088
Bhola, A. L. 3223
Bhosle, R. H. 752, 898, 2409
Bhowmik, P. C. 109, 329, 402, 953, 955, 1292, 2955, 3245
Bhuiyan, L. R. 2046
Bhuiyan, T. A. 3790
Bhullar, J. S. 688
Bianco, A. 3667
Bidnenko, L. I. 637
Bierman, R. H. 2399
Biesboer, D. D. 1906, 3658
Bigwood, D. W. 1363
Bil', K. Ya. 2894
Billot, M. R. le C. de 2574
Bilton, R. F. 3165
Bing, A. 66, 390, 956
Bingham, S. W. 1313
Bini, G. 3577
Binning, L. K. 2735, 2804, 3606
Binns, R. M. 2599
Birk, J. H. 524
Bîrlea, V. 602, 1567
Birnie, J. E. 2021
Biryukov, S. V. 2894
Biryukova, N. F. 1472
Bisen, C. R. 33, 2378
Bishnoi, U. R. 3453
Bishop, K. C., III 3752
Bissell, S. R. 2500
Bittman, S. 2634, 2722
Björn, L. O. 3310
Black, H. L. 3492
Black, I. D. 2838
Black, L. D. 1845
Blackshaw, R. E. 3645
Blaine, M. A. 1241
Blake, G. 176, 267
Blaustein, L. 1087
Blecharczyk, A. 2040
Blessing, M. A. 3178
Bliev, Yu. K. 2934
Blindow, I. 177
Blinova, T. F. 813
Blockstein, D. E. 3615
Bluhm, D. R. 82-83
Blume, H. P. 2308, 3760
Blumhorst, M. 2692
Blumhorst, M. R. 3218
Bobák, B. 2275
Bobák, M. 2254
Bochkarev, A. N. 1588, 2037
Boddrell, J. E. 3042
Bode, L. E. 1524, 2393
Bodó, I. 3515
Bodor, T. 818, 2924
Boermans, H. J. 1354
Boersma, L. 2884
Bogdanova, N. E. 2258, 3119
Böger, P. 227, 521, 1131, 2274, 3721
Boggs, K. W. 3625, 3710
Bohl, T. C. 2483
Bohus, P. 836
Boĭko, A. S. 940
Bojarczuk, K. 3019
Bojas, Z. 1672, 2969
Boland, R. L. 3039
Boldt, L. D. 2945
Boldt, P. E. 3115
Bolick, M. R. 1781
Bollag, J. M. 2612
Bolton, B. J. G. 8
Bolzoni, L. 1928
Bonanno, A. R. 1688, 1698
Bondarenko, A. D. 474
Bondarev, V. S. 3399
Bonilla, J. S. 3302
Bonin, J. 1632
Bonish, P. M. 2422
Bonnemain, J. L. 209
Bonner, M. J. 2558
Bonte, D. R. La 2731
Bonzi, M. C. 3476
Bóo, R. M. 1343
Boot, R. 2501
Boquet, D. J. 1245
Bordás, B. 3765
Borek, V. 3144
Borg, S. J. ter 1066, 1078, 1177
Borgenstierna, A. 3448
Borght, P. vander 422
Borgohain, M. 2389, 2661
Borhidi, A. 3631
Borisenko, L. A. 960
Borland, A. M. 2798
Born, R. 2181
Borona, V. P. 1590
Borowiec, S. 469, 3062
Bors, M. 3405
Boršič, B. 2829
Boswell, T. E. 2699
Bouchard, C. J. 1775
Bouchard, D. C. 2284
Bouchery, Y. 2235
Boudier, B. 3559
Bough, M. 1846
Boullay, Y. du 3428
Boulos, L. 1776
Boulton, P. M. D. 2610
Bourdôdot, G. W. 1425
Bourdôt, G. W. 3016
Bourgoing, R. 1719
Bourillet, D. 950
Bourke, J. B. 1501, 1933
Bourland, F. M. 52
Bourne, A. S. 786, 1103
Bouse, L. F. 832
Boutin, D. 1719
Bouwhuis, J. S. 2298
Bovey, B. W. 937
Bovey, R. W. 1752
Bowe, S. J. 678, 2107
Bowers, J. B. 1966
Bowers, R. C. 781
Bowes, G. 734, 1855
Bowman, C. M. 525
Bowman, J. B. 908
Bowman, J. E. 624, 2696
Bowmer, K. H. 2607, 2610
Bowran, D. G. 2023
Bowyer, J. R. 3740
Boyd, C. E. 2503
Boyd, J. W. 2766
Boydston, R. A. 1113, 2264
Boyette, C. D. 1870
Boyette, K. D. 2937
Bozarth, C. S. 1360
Bozarth, G. A. 236, 1910
Božić, D. 2017
Brabben, T. E. 98
Bradley, J. R. 1645
Bradley, J. R., Jr. 551
Bramble, W. C. 714
Branham, B. 2434
Brar, L. S. 2423
Braun, M. 3241
Braunberger, P. G. 3146
Brauner, G. L. 345
Braz, B. A. 2042
Brazee, R. D. 2326, 3169
Brazil, Comissão Executiva do Plano da Lavoura Cacaueira 1176
Breaux, E. J. 514, 3739
Brecke, B. J. 3227, 3509
Brede, A. D. 1416, 2765, 2768
Breebaart, L. 731
Breeze, V. G. 1119, 1903
Bregger, T. E. 237
Breman, J. W. 2386
Brenner, M. L. 794
Brewer, P. E. 395
Bridges, D. C. 3478, 3519
Briesbach, J. A. 3346
Briese, D. T. 1874, 3104-3105, 3107
Briggs, G. G. 2882
Brighty, E. 3706
Brink, D. E. 2793
Brinkman, U. A. T. 546
Britton, C. M. 935-936
Britvin, A. A 1291
Brock, J. H. 135
Brockman, F. E. 909
Broekman, R. 1406
Bromilow, R. H. 2882
Brookes, A. 3065
Brookes, C. P. 2236
Brooks, J. M. 2886
Broschat, T. K. 2101
Brosten, B. S. 196
Brown, A. H. D. 2566
Brown, J. J. 2919
Brown, J. K. 1864
Brown, K. R. 2078
Brown, L. J. 1944
Brown, M. A. 2260
Brown, P. A. 3435

Brown, S. M. 1196, 3478
Brown, S. N. 1705, 1707
Brownie, C. 3390
Bruce, S. J. 1660
Bruckart, W. L. 777, 1457, 3683-3684
Brukhal', F. I. 866
Brümmer, G. 3760
Brunelli, A. 3412
Brunner, J. 2050
Bruzzese, E. 2860, 3685
Bryce, J. H. 3661
Bryson, C. T. 246, 3355
Bryusov, V. N. 3514
BSES Bulletin 2630
Bublik, A. I. 1213
Buchholz, C. 1573
Buckingham, G. R. 2755
Bucur, E. 3573
Bucy, J. I. 2329
Buehring, N. W. 1241
Bufton, L. P. 2014
Bugbee, B. 1900
Buhler, D. D. 1468, 2053, 3471, 3474
Bukhov, N. G. 1144
Bulcke, R. 13-15, 20-21, 24, 29, 38, 63, 274, 281, 348, 350, 353, 363, 376, 379, 383-385, 387-388, 392, 404-405, 407, 495
Buletin Informasi Pertanian Kayuambon, Lembang 1264, 1352
Buletinul de Protecţia Plantelor 3784
Bulgachev, A. N. 2156
Bulletin CETIOM 918
Bullock, F. D. 1705, 1707
Bulmer, R. H. C. 155
Bultsma, P. M. 1023
Bunch, T. D. 3034, 3037
Bund, B. 1552
Buntin, G. D. 2807
Burbano O., E. 129
Burch, P. L. 1725
Burcuş, N. 2918
Burdon, J. J. 2566, 2953
Burge, M. N. 199
Burgieł, Z. 1574
Burke, B. A. 1110
Burke, H. R. 2843, 3118
Burkhart, H. E. 2448
Burnside, O. C. 468, 2329, 2627, 2970
Burroughs, F. G. 2624
Burrows, N. O. 2523
Burton, W. B. 1910, 1954
Buryi, V. S. 866
Bush, M. N. 3443
Bush, P. B. 1735
Busse, S. R. 2654, 2714
Busto, A. del 3406
But, A. Ya. 2438
Butkalyuk, T. E. 1590
Butler-Fasteland, M. C. 2742
Butler, J. H. B. 59
Butler, L. 1080
Butler, T. 949
Buttery, R. G. 498
Butzke, P. 1932
Butzonich, I. P. 2227
Buxton, R. P. 2770
Buyse, A. D. 2298
Bychko, M. F. 1217, 2190
Bykova, A. V. 2130
Byrd, J. D., Jr. 2998
Byrne, S. V. 3263
Byrnes, W. R. 714
Bystrykh, E. E. 1472
Cabanettes, J. P. 893
Cabanne, F. 2570
Caceres, I. 776
Cadahía, E. 563
Caero, G. 3347
Caffrey, J. M. 171
Cain, M. D. 2115
Cain, N. P. 671
Cairns, A. L. P. 999
Caixinhas, L. 2643
Call, C. A. 2083
Call, D. J. 2292
Callaghan, T. V. 3182-3183
Callahan, L. M. 394
Callaway, M. B. 1454-1455, 2251
Callihan, R. H. 916, 1578, 1597, 1762, 1811, 2608
Calmon, J. P. 2887
Calvert, G. V. 3234
Calvert, P. D. 3352
Calvin, C. L. 1849
Cameron, J. N. 981, 2114
Cameron, R. A. D. 3098
Camilleri, P. 3740
Camoni, I. 1142, 3388
Campbell, A. J. 1653
Campbell, C. G. 53
Campbell, J. R. 2572
Campbell, M. H. 2073
Campbell, R. A. 85
Campbell, T. E. 1341
Canada, Kentville Research Station 1998
Canada, Lethbridge Research Station 3793
Canadian Pest Management Society 854
Cannell, A. M. 2509, 2512
Cantarutti, R. B. 932
Cantele, A. 3308, 3612
Cantfort, A. van 1753
Cantier, J. M. 3158
Cantrell, R. L. 92, 1721
Cao, X. M. 1659
Capell, B. B. 1647
Capinera, J. 3672
Caputa, J. 451
Cardellina, J. H. II. 2854
Cardina, J. 3226, 3508
Cardona, C. 3804
Cargill, L. M. 2768
Carlos Indelicato, L. 2963
Carlson, S. J. 573
Carlson, W. C. 537
Carlton, J. B. 832
Carmori, P. H. 75
Carnegie, H. M. 3608
Carpenter, T. G. 2326, 3169
Carpio, N. 50
Carr, R. J. G. 3165
Carrithers, V. 2102
Carrithers, V. F. 3569
Carrithers, W. 2102
Carroll, C. R. 1766
Carroll, D. P. 3332
Carroll, K. R. 1224, 1266
Carsel, R. F. 1515
Carson, A. G. 3481
Cartee, R. L. 299
Carter, C. H. 1037, 3229, 3517, 3624
Carter, C. W. 1595
Carter, M. F. 1419
Cartia, G. 3026
Cartwright, B. O. 509
Caseley, J. C. 2880, 2943
Casida, J. E. 1909, 3500
Casini, C. 2721
Casini, P. 39, 1251
Caso, O. H. 2577
Cassani, J. R. 2252
Casteran, P. 3572
Catalogne, E. V. A. 724
Catargiu, D. 597
Catizone, P. 614, 3412
Cavalieri, B. 3635
Cavalloro, R. 3795
Cavers, P. B. 1846
Cayley, G. 2632
Cayón S., G. 51
Cazorla, M. 2320
Cedeño M., R. 2118
Center, T. D. 2849, 3699
Centre for International Agricultural Research, Australia 3418
Centro Agrícola 575
Centro Internacional de Agricultura Tropical 3431
Cerdeira, A. L. 234
Cerkauskas, R. F. 2412
Černjul, Z. 2404
Cerqueira, W. P. 1815
Cervesato, M. 3791
Cetean, V. 1289
Ceustermans, N. 2304
Chabwela, H. N. 166
Chadoeuf-Hannel, R. 3283
Chadoeuf, R. 446
Chaffey, N. J. 1851
Chaĭlakhyan, M. Kh. 1369
Chakraborty, N. K. 2070
Chalakov, C. 1077
Chaleff, R. S. 219, 1895
Challaiah 468
Chamberlain, K. 2882
Chambers, A. Y. 1576
Chamel, A. 208
Chamroux, I. 2360
Chan, L. M. 2663
Chancellor, R. J. 448, 485, 2209, 3070
Chanda, S. 1774, 1778
Chandler, J. M. 2463, 3057, 3478, 3519
Chandrakar, B. L. 17
Chandrasena, J. P. N. R. 2589
Chandrasena, N. R. 516
Chandrawanshi, B. R. 17
Chang, M. 1081
Chang, N. K. 1856
Chang, T. S. 897
Chantaraprapha, N. 1448
Charanjit Singh 3558
Charlot, G. 409
Charudattan, R. 700, 2247, 2853
Chase, W. R. 2730
Chatterjee, B. N. 1533
Chaudhry, A. M. 322
Chaudhuri, I. 461
Chaudhuri, R. K. 461
Chaudhuri, R. P. 507
Chauhan, D. V. S. 2697
Chauhan, S. V. S. 143
Chaurasia, R. K. 157
Chavez, R. C. 1017
Cheadle, V. I. 1847
Cheam, A. H. 1012, 2777
Chebanovskaya, A. F. 2105
Chedzey, J. 3200, 3252
Chehata, A. N. 2042
Chen, C. C. 1873
Chen, C. P. 2416
Chen, G. H. 410
Chen, H. B. 410
Chen, M. 1938
Chen, M. J. 1873
Chen, P. C. 531
Chenault, E. W. 251, 638, 925
Cheney, T. M. 2093
Cheng, S. H. 1437
Chérade, X. de 2887
Cherepanov, V. P. 1590
Chernen'kova, T. V. 2540
Chiang, M. Y. 1467
Chicione, T. K. 2650
Chimisliu, A. 1567
Chimişliu, C. 602
Chinnaswamy, R. 3729
Chiribelea, C. 1585
Chirilă, C. 3613
Chiriţă, N. 602, 2031
Chisaka, H. 3132, 3213
Chism, W. J. 651
Chitkara, S. D. 3570
Chiu, R. J. 1873
Chiu, T. Y. 2260
Chkanikov, D. I. 206, 225, 2903
Chládek, Z. 3775
Chmil, V. D. 542, 2285
Cho, H. Y. 214, 552
Cho, J. J. 2226, 3336
Choban, R. G. 341-342
Chodová, D. 805, 807, 1132-1133, 2402, 2594
Choi, K. M. 3077
Chopin, J. 2787
Chou, C. H. 1044
Choubey, S. D. 2680
Choudhary, A. H. 1252
Choudhury, B. P. 1777
Chourasia, K. K. 3216
Chow, D. 722
Chow, P. N. P. 1163, 2625
Chowdhury, V. K. 520
Christensen, P. E. 2523
Christians, N. E. 71
Christy, A. L. 3467
Chritz, K. M. 2282
Chubb, W. O. 927
Chueca, A. 1128
Chung, G. F. 1100
Churáček, J. 1932
Churacek, J. 2287
Ciampolini, M. 1086
Cibolo Manufacturing 838
Cid-Benevento, C. R. 1798, 3066
Cink, J. H. 1203
Cino, D. M. 1414
Ciobanu, C. 602, 1567
Cioppa, G. della 3370
Ciorlăus, A. 602, 1567
Cisternas V., C. 2678
Ciszewska, R. 2968, 3142
Claassen, M. M. 295, 2664, 2987
Claes, K. 2268
Clair, D. 2569
Claridge, M. F. 3341
Clark, A. 896
Clark, C. A. 1445
Clark, D. A. 1661
Clark, S. A. 1787
Clary, W. P. 1970
Claus, J. 2054
Claus, J. S. 2982
Clay, D. V. 659, 666, 685-687
Clayton, G. 2192
Clayton, J. S. 103
Cleave, K. 683
Clegg, B. S. 2910
Cleland, C. F. 1375, 1436, 1460
Clemens, J. 68
Clement, L. 650, 1696
Clement, M. 784, 3094
Cliath, M. M. 1964, 2930
Clifford, P. E. 1057
Clint, G. M. 2830
Clipsham, I. D. 799
Clough, K. T. 1848
Cloughesy, M. 3256
Clowes, F. A. L. 2542
Coats, G. E. 958, 1307, 1309, 1315, 2435, 3480
Coble, H. D. 27, 162, 1412, 2964
Coble, T. A. 2478
Cock, J. H. 184
Coco, A. B. 1245
Coe, E. H. 218
Coffey, M. D. 1516
Coffin, R. D. 1002
Coffman, C. B. 1878
Cofrancesco, A. F., Jr. 3700
Coggins, J. R. 1143
Cohen, S. Z. 1515
Cojocariu, P. 2324
Colbert, D. 1753
Colbert, D. R. 207, 2932
Cole, A. W. 234
Cole, E. C. 1684, 1737-1738, 3306
Cole, R. M. 2991
Collin, H. A. 1122, 2269
Collins, D. M. 1036
Collins, F. C. 298
Collins, F. L. 2230
Collins, J. N. 698
Collins, W. K. 1645
Colón, C. 35-37
Colosi, J. C. 1846
Colucci, R. 3204
Colvin, D. L. 2398, 3186, 3509
Colvin, T. S. 1978
Comai, L. 3371
Combellack, H. 2644
Combs, J. C. 698, 766-771, 1087
Comerford, N. B. 1735

Commonwealth Scientific and Industrial Research Organization, Australia 1456
Conant, R. D., Jr. 699
Cone, J. W. 3279
Congleton, W. F. 3384
Connors, K. L. 2817
Conrad, R. 2507
Conrady, D. 1158
Consaul, L. L. 1791
Constantin, R. J. 1310, 1687
Cook, A. M. 555, 2302
Cook, C. D. K. 124
Cook, G. S. 3622
Cook, M. R. 1660
Cooke, D. A. 2838
Cooke, R. T. 1956
Cooksey, T. E. 1735
Cooley, W. E. 203, 1129
Cooper, S. C. 3170
Corbin, B. R., Jr. 1204
Corbin, F. T. 1467, 1645, 2588, 2881, 3224
Cordero, M. 505
Cordo, H. A. 3101
Cornelsen, A. 72
Corradi, M. G. 3635
Correa, H. G. 1975
Corrigan, J. E. 3116
Corso, G. M. 644
Cosby, D. 1330
Cosgrove, D. R. 2458
Cosio, E. G. 1899
Cosslett, B. J. 979, 1328, 1337
Costa, J. 435
Costa, N. de L. 3055, 3484
Costa, R. A. S. 345, 1608
Costa V., J. 2655
Costa Vilamajó, J. 3413
Coste, C. 3158
Coste, C. M. 1152
Costea, A. 3783
Costello, L. 3596
Costello, L. R. 1311, 3562
Costin, V. 597
Cottrell, H. J. 3802
Couch, R. 2499
Coudriet, D. L. 3333
Court de Billot, M. R. le 2574, 3141
Courtial, R. 2392, 2410
Cousens, R. 154, 2636, 3179, 3188
Couture, M. 3396
Covarelli, G. 1268, 3309
Cowell, J. E. 1935
Cowgill, W. P., Jr. 677
Cox, J. R. 1680, 1685
Cox, R. C. 1434
Cox, T. I. 1286, 1318, 1325
Coykendall, R. L. 698, 766-771, 1087
Crabtree, G. 992, 2257
Cragg, G. M. 843
Cramer, G. C. 1669
Cramp, M. C. 2596
Cranston, R. 437
Crawford, S. H. 1224, 1266
Creeger, S. M. 1515
Creighton, J. F. 648
Creighton, J. L. 1741
Crenshaw, J. D. 3036
Crepel, H. 347
Crisóstomo, J. R. 2069
Crisp, C. M. 682, 685
Crosby, D. G. 1966, 2922
Croteau, R. 2100
Crothers, S. H. 3128
Crowder, S. H. 1228
Crowe, S. P. 3035
Crowley, R. H. 1327
Crunkilton, R. L. 2300
Crutchfield, D. A. 2674
Cruz, J. C. 2172
Cruz U., R. de la 51, 2760
Csala, I. 2673
Cséplő, A. 2270
Csernátoni, L. 3748
Csiszár, J. 2893
Csorba, K. 1273
Cubero, J. I. 1071, 3804
Cuccia, S. J. 1912
Cuda, J. P. 2843, 3118
Cudney, D. W. 1184, 1809
Cuellar, N. 3250
Cullen, J. M. 1456, 2947, 3180
Currey, W. L. 1312, 3058, 3509
Curtin, S. L. 769
Curtis, J. D. 2825-2826
Curtis, R. E. 1557
Cussans, G. W. 107, 707, 1610, 3179
Custers, C. P. C. 490
Cutler, H. G. 1096, 1878
Czapski, J. 3011
Czerkawski, D. L. 1163, 2625
Czuba, M. 2578
Dabrowski, J. 3151
Dag, Y. 2549
Daget, P. 456
Dagnino, M. R. 1928
Dahiya, D. R. 3222
Dahl, G. 2714
Dahl, G. K. 2654
Dahm, P. A. 1509
Dailey, O. D., Jr. 1908
Daĭnenko, G. I. 1035
Dale, J. E. 41, 2946, 3777
D'Alessandro, F. 2413
Daljit Singh 2384
Dalmau, P. Alayo 1447
Damato, G. 2810
Damtoft, S. 2224
Dana, M. N. 2735
Danehower, D. A. 366
Daniel, J. 635, 3512
Daniel, W. H. 3154
Daniell, J. W. 1714
D'Anieri, P. 84
Danilenko, L. D. 705
Danilov, A. S. 3367
Dannhardt, G. 3599
Dao, T. H. 3458, 3763
Darcy, P. A. 3427
Darmency, H. 2586, 3133-3134, 3362
Darwent, A. L. 3099
Darwish, E. T. E. 3353
Das, C. R. 1820
Das, V. S. R. 1857, 3660
Dasgupta, M. K. 900
Dash, B. 2683
Dashila, R. S. 2837
Dashkova, I. A. 801
Datta, P. C. 1774
Datta, S. C. 2070
Datta, S. K. de 320, 2049
Davenhill, N. 696, 1332
Davenhill, N. A. 247
Davidescu, D. 3014
Davidov, A. M. 885
Davidson, S. 2201
Davidson, W. E. 1573
Davies, D. H. K. 164, 356, 362, 3461
Davies, F. T., Jr. 1303
Davies, M. 259
Davies, M. S. 3292
Davis, C. 210, 643
Davis, C. P. 334-335
Davis, D. E. 2821
Davis, V. A. 697
Davison, J. G. 709-710
Davydov, A. M. 915, 921, 924
Dawah, H. A. 3079
Dawson, F. H. 704
Dawson, J. H. 1665, 2421
Dawson, L. 118
Dayanand 585
De Ath, M. R. 114
De Beer, P. R. 3747
De Datta, S. K. 320
De la Cruz U., R. 2760
De los Angeles Figueredo, M. 2772
De Lyon, M. J. H. 490
De Pedro, L. B. 1088
De Silva, D. L. R. 1434
De Vries, P. J. R. 1355
Debolt, J. W. 191
Debrot, E. A. 1876
Debus, E. E. 1989
Debusk, W. F. 2504, 2799
Dechoretz, N. 104
Dedičová, B. 530, 534
Deeva, V. P. 230, 3367
Défago, G. 1102, 3681, 3683, 3693
Defago, G. 1457
Degras, L. 580
DeGregorio, R. E. 377
Dehne, H. W. 564
Dekker, J. 1008
Dekkers, W. A. 851, 1621
Del Amo R., S. 3717
Delas, J. 3572
Delfosse, E. S. 1456, 2858, 2947, 3103, 3794
Delhey, R. 3330
Deli, J. 1231
Della-Cioppa, G. 515, 3370
Dellow, J. J. 2073
DeLoach, C. J. 2859, 3115
Delrot, S. 209
Demeter, S. 2582
Demeter, Y. 1118
Deng, W. Y. 3364
Denisenkova, R. N. 3744
Denizot, J. P. 1758
Denner, R. A. P. 154
Dennis, W. H., Jr. 1502
DeNoyelles, F., Jr. 2293
Derking, C. W. 1240
Dernoeden, P. H. 398-399, 428, 656, 957
Derr, J. F. 3587
Derrick, K. S. 1445
Derting, C. W. 3479
DeRue, T. K. 1501
Dethioux, M. 1829, 1832-1834
Deubert, K. H. 113
Devantier, B. P. 1661
DeVay, J. E. 2563
Devi, G. S. 1896
Devlin, R. M. 301, 1478
Devonald, V. G. 3581
Dewey, J. E. 1501
Dewey, S. A. 1686
DeWitt, T. C. 2093
Dexter, A. G. 1049, 2517, 2944, 3766-3767
Dey, P. M. 3800
Dey, S. K. 2967
DeYoe, D. R. 692
Dhakshinamoorthy, M. 847
Dhaliwal, H. S. 2584, 3736
Dhankhar, B. S. 2088
Dhingra, K. K. 64
Dhir, K. K. 2822
Di Martino, E. 3795
Dial, C. A. B. 3391
Dial, N. A. 3391
Diallo, S. 3481
Díaz Cruz, L. E. 2537
Díaz, H. 2577
Díaz, J. C. 3250
Díaz, L. E. 138, 2845
DiCenzo, G. L. 248
Dickens, R. 1314, 2103, 2465
Dietl, W. 1655, 1679
Dihoru, G. 2211
Dijk, G. M. van 743
Dil Rosh 324
Dilday, R. H. 3735
Dill, D. C. 2603
Dillaha, T. A. 3162
Dillenburg, C. R. 3628
Dillon, S. P. 1026
Dimitrijević, M. 2750, 2753
Dinka, M. 153
Dinu, C. 1567, 1603, 1643, 2375, 2754
Dinu, I. 2918
Dinzenhofer, B. 493
DiProfio, R. A. 1956
Dixit, S. N. 3038
Dixon, R. A. 3800
Díz-Rivera, M. 3642
Dmitrieva, S. A. 2143
Dobó, F. 959
Dobrzański, A. 3010-3011, 3015
Dobson, J. B. 207, 1666, 2932
Dobson, J. W., Jr. 3234
Dodd, J. 3653-3654
Dodge, A. D. 23, 2895
Doi, M. 2259
Doll, J. D. 430
Domańska, H. 2058
Domek, J. M. 193
Domir, S. C. 2441
Dommarco, R. 1142
Dommerholt, F. J. 1079
Donald, W. W. 573, 997, 2470, 3273, 3607
Donaldson, T. W. 1748
Donselman, H. 2101
Donzel, B. 216
Doohan, D. J. 661
Doohan D. J. 913
Dopuđa, M. 2364
Dorneden, D. J. 2463
Dornescu, D. 597
Dorofeev, V. I. 2155
Dorr, J. E. 1573
Dorr, L. J. 2638
Dossekou, M. 3013
Dostálek, J. 3614
Dotsenko, I. M. 1626
Doub, J. P. 317
Dougherty, P. M. 1330
Doughty, C. R. 488
Douglas, D. W. 753
Doumbia, Y. O. 3476
Doust, L. L. 3634
Dowell, F. E. 1523, 3205
Doweyko, A. M. 1897
Dowler, C. C. 249, 2331, 3054, 3172
Dowler, W. M. 777
Downard, P. 1349
Downing, B. H. 3238
Downs, J. P. 1326, 1342
Downs, P. 2335
Doyle, C. J. 3179
Doyle, R. B. 569
Drăguț, G. 3006, 3544
Drake, J. A. 3426
Dražić, D. 2137
Drechsler, H. 3152
Drecht, G. van 2317
Drennan, D. S. H. 155, 707, 739
Drew, B. N. 904
Drew, R. A. 944
Drinkall, M. J. 595, 3442
Drinkwater, J. A. 2332
Driscoll, R. J. 173
Drosos, E. 3541
Drummond, D. J. 362, 3443
Drummond, J. M. 3449
Dryanovska, O. A. 3135
Dryden, P. J. 1287
Duangpatra, P. 2709
Duarte, M. 1359
Duatin, C. J. Y. 1088
Dubacq, J. P. 2266
Dubey, A. N. 265
Dubey, H. S. 1784
Dubois, J. P. 176, 197
Dubois, M. A. 2787
Dubravec, K. 2829
Duchatelet, A. 1699
Ducruet, J. M. 2266
Dudás, A. K. 3515
Dudoich, D. J. 3262
Duelke, B. 2127
Dufour, J. L. 812
Duhr, E. 2040
Duke, S. O. 215, 529, 1097, 2857, 3351
Duke, W. B. 524, 3619
Dukes, P. D. 1637
Dumančić, T. 2170
Dummler, M. 26
Dunand, R. 3491
Dunbar, K. B. 3658
Duncan, C. N. 3594
Duncan, P. 174
Dunn, J. C. 1232, 2743
Dunst, R. M. 675

Dupont, P. 294
Durán, J. M. 442
Durani, S. 2820
Durdy, S. A. 1303
Durgan, B. R. 2517
Durham, R. G. 3234
Durigan, J. C. 621, 2109
Dustmukhamedov, T. T. 811, 3365, 3369
Dutartre, A. 175, 197
Dutka, F. 2673, 3373, 3759
Duyn, J. W. van 551
Dvoryankin, E. A. 230
Dwivedi, P. 3038
Dwivedi, S. S. L. 2716
Dyachenko, I. D. 401
D'yachenko, I. I. 1300
Dyer, T. A. 525
Dyer, W. E. 3738
Dyk, L. P. van 3747
Dyke, C. G. van 1453
Dyson, J. S. 243
Eadie, I. M. 1550
Earle, E. D. 2897
Ebing, W. 566
Edson, W. D. 647, 3555
Edwards, G. E. 1437
Edwards, J. V. 1878
Edwards, M. T. 1228
Eeckhaut, G. 54
Eggers, T. 3049
Eggert, H. 737-738
Egley, G. H. 1767, 2775
Egyed-Bálint, K. 3315
Ehart, O. R. 3750
Ehmann, A. 1955
Ehr, R. J. 2624
Ehr, T. G. 2460
Ehrmann, P. R. 1944
Eichenlaub, M. 953
Eid, S. A. 1082
Einhellig, F. A. 1107, 1145
Eisenmann, J. 1674
Eissa, A. K. 1569
Eiszner, H. 623
Ejeta, G. 1080
Ekler, Z. 3759
El-Beltagy, A. S. 1882
El-Deek, M. H. 522
El-Ghamrawy, N. K. 3325
El-Gharably, Z. 99
El-Ghazal, R. A. K. 744
El-Hattab, A. H. 3496
El-Hattar, A. H. 1569
El-Ibaoui, H. 209
El-Keltawi, N. E. 2100
El-Madhun, Y. A. W. 2309
El-Metwally, E. A. 3523
El-Missiry, M. M. 3617
El-Sharkawy, M. A. 184
El-Titi, A. 1549
El-Wakil, M. A. 3686
Elabd, H. 2930
El'chaninov, A. D. 1288
El'china, L. M. 528
Eleftherohorinos, I. 155
Eleftherohorinos, I. G. 739
Elejalde, C. 3291
Elhiweris, S. O. 1862
Elia, Y. I. 2729
Eliadēs, K. G. 3554
Eliáš, P. 530, 534, 1001
Ellis, R. C. 742
Ellis, R. H. 1760
Elmore, C. D. 142, 1027
Elmore, C. E. 3562
Elmore, C. L. 1322, 1336, 3596
Else, M. J. 339, 396
Elsner, H. 605
Emel'yanov, A. A. 2156
Emon, J. M. van 1939, 1946
Emons, A. M. C. 2827
Enfield, C. G. 1515
Engelhardt, G. 815
England, R. E. 791
Enz, J. 2670
Epishina, L. V. 3769
Eplee, R. E. 503, 2550
Epp, G. A. 3046
Eppler, A. 2844
Erasmus, D. J. 2476
Erbes, D. L. 3378
Erdelská, O. 444
Ergashev, A. E. 727
Ernst, W. H. O. 1068
Ershov, V. L. 1562
Esashi, Y. 995, 2473-2475, 2877
Esau, R. 632-633, 646, 649, 654, 657
Esbroek, M. van 1406
Escobar C., R. 2118
Escobar, E. 139
Eshchenko, V. E. 2015
Eskarous, J. K. 2219
Espir, A. F. 3462
Espírito Santo, D. 2643
Esser, R. P. 2848
Estabrooks, E. N. 661
Estores, R. A. 341-342
Etherington, J. R. 3292
Eto, M. 2906
European Weed Research Council 278
Eusuf, M. 3790
Evans, A. A. 2882
Evans, C. E. 1512
Evans, F. J. 3617
Evans, H. C. 2245, 3114
Evans, J. C. 6
Evans, J. O. 116, 492, 1747, 1787, 1900
Evans, J. R. 372
Evans, R. R. 2984
Everitt, J. H. 3792
Everts, J. W. 2298
Ewing, M. A. 3536
Fadeeva, T. S. 2368
Fademi, O. A. 3773
Fagade, S. O. 1594
Fagg, P. 238
Falb, L. N. 2256
Falco, S. C. 2272
Falconer, R. W. 3592
Fălticeanu, M. 3017
Fancher, G. A. 3262
Fang, C. Q. 2882
Fanning, M. A. 2365
Fantastico, E. B. B. 2779
Farmer, J. M. 125
Farrant, D. M. 3442
Farrar, J. F. 2798
Farrukh Hussain 2059
Farwell, B. J. 315, 662
Faulkner, M. J. 595
Fawcett, J. A. 3727
Fawole, L. O. 963
Fay, P. K. 1967, 2418, 3615
Faye, B. 3275
Feaver, M. N. 2244
Fedotov, V. G. 862
Felipe, M. R. de 272, 2593
Felker, P. 3255
Fellows, G. M. 1967
Felsot, A. 2931
Feng, B. C. 3076
Fenske, R. A. 2920
Feráková, V. 1383-1384
Ferenczi, M. 2924
Ferguson, D. T. 2650, 2659
Ferguson, J. A. 903
Ferguson, T. L. 1504
Fernandez, A. 1837
Fernández del Campo, F. 2593
Fernandez L., E. 3717
Fernández, O. A. 418
Fernández-Quintanilla, C. 1837, 3454
Fernando, T. 1138
Ferrández, G. 1267
Ferreira, M. B. 845
Ferreira, R. de P. 3055, 3484
Ferrell, M. A. 1469, 1682
Ferrer, M. R. 2938
Ferretti, P. A. 380
Ferro, R. 1220, 1226, 2437
Feth, F. 3662
Fetisov, E. P. 1260
Feyerabend, G. 737
Fick, W. H. 2426, 3583
Fiedler, L. 578
Field, R. J. 1210, 2508
Field, R. P. 2860, 3685
Figueredo, J. M. 2772
Filary, Z. 3151
Filip, J. 262
Filip, S. 2072
Filipescu, I. 2324
Filippov, Yu. S. 540
Fillatti, J. J. 3371
Findlay, J. B. R. 3252
Firbank, L. G. 18, 271
Firkó, I. 3194
Fischer, B. B. 1318, 1325
Fischer, G. 1583
Fischer, H. L. 3028
Fischer, M. M. 3639
Fischer, N. H. 1112
Fischer, W. B. 3438
Fisher, J. A. 303, 3460
Fisher, J. T. 3262, 3264
Fisk, A. P. 8
Fisyunov, A. V. 579, 1190
Fitzgerald, W. S. 1754
Fitzsimons, P. J. 2546-2547, 2831
Flanigan, H. A. 2659, 2982
Fleck, N. G. 1183
Fleeker, J. R. 1493
Fleming, G. F. 1808
Fleming, K. J. 768
Fletcher, J. W. 2386
Flick, G. 1584
Flinchum, D. M. 92
Flint, C. E. 108, 357
Flint, E. P. 1002
Flint, P. W. 1024
Floch, D. le 1215
Flom, D. G. 2608
Flood, R. G. 1764
Flores, M. 2320
Flores Rodríguez, M. 2321, 2939
Flum, T. F. 2600
Flynn, J. L. 159
Foccella, F. 2077
Fodor, F. 2673
Fogarasi, M. 599
Földesi, D. 1273
Foley, M. E. 3123, 3610, 3621
Fomina, I. R. 2894
Fonseca, L. B. 2675
Fonseca, M. A. 482
Fontenot, J. F. 1687
Food and Agriculture Organization of the United Nations 2959
Foote, P. W. 1686
Forbes, A. R. 772
Forbes, G. R. 354
Forcella, F. 1007, 1026, 1816, 2372
Ford, J. 1982
Foreman, M. H. 1210
Fork, D. C. 3430
Forney, D. R. 2921
Forno, I. W. 1103, 3701
Forster R. 1980
Forsyth, S. F. 2865, 3096
Fortin, J. A. 3396
Foschi, S. 3388
Foster, M. A. 3345
Fourcy, A. 267
Fournier, J. C. 2614
Fowler, D. B. 2026
Fowler, M. C. 106, 3584
Fox, A. M. 97
Fox, B. J. 2522
Fox, M. D. 2522
Foy, C. L. 28, 203, 608, 1129, 2836
Fraley, L., Jr. 1444
Fraley, R. T. 515, 3370
France, Institut National de la Recherche Agronomique 1540
France, Institut Technique des Céréales et des Fourrages 853, 1206
France, Union Nationale Interprofessionnelle des Légumes de Conserve 1691, 2089-2092, 2684-2688, 3548-3552
Francis, C. A. 1187, 2007
Frank, R. 1485
Franke, G. 623
Frankland, B. 3319
Frans, R. 548
Frans, R. E. 556, 1204
Franz, E. 2326, 3169
Fraser, T. W. 1481
Frazier, N. W. 1083
Fredon, J. J. 213
Freeborg, R. P. 3154
Freed, B. E. 2053
Freed, V. H. 242
Freeman, C. G. 1792
Freeman, J. A. 986
Frei, R. W. 546
Freimundt, G. N. 2909
Freire, A. S. 973-974
French, C. M. 1202, 3187
French, K. 1673
French, R. C. 201
Fresenburg, B. S. 3268
Freshwater, D. 1506
Frick, K. E. 1098
Fricker, M. D. 2789
Friedman, D. 1526
Friedrichsen, P. S. 1673
Friesen, G. H. 53, 305, 927, 2175, 2369
Friessleben, G. 636, 2065
Friisoe, G. Y. 3220
Fritea, T. 602, 1567, 1585
Fritsch, G. 2875
Froehlich, D. 3167
Frolíšek, M. 3668
Frost, A. R. 2631
Frost, K. R., Jr. 1236
Froud-Williams, R. J. 121, 723
Frużyński, J. 3778
Fry, J. D. 656
Fry, W. E. 351
Fu, J. G. 410
Fuentes García, M. 1599
Fuerst, E. P. 30, 1432
Fujioka, S. 1460
Fujita, M. 1442, 3073
Fujita, T. 231
Fujiwara, M. 1716
Fulgham, f. E. 252
Fullwood, A. E. 304
Furukawa, A. 2485
Fuwa, N. 995, 2473-2475
Gaál, E. 3511
Gaba, V. 2621
Gabel, S. 3595
Gabela, F. 2118
Gabrielson, B. C. 844
Gadkari, D. 3771
Gaffer, M. A. 3486
Gaffney, G. 2445, 2447
Gage, S. H. 2841
Gahukar, R. T. 3481
Gaĭnullin, A. Z. 1627
Gajtkowski, A. 3774, 3779
Galeev, R. R. 2096
Galev, I. 1077
Galinato, M. I. 2794
Galleová, Z. 3177
Gamaleĭ, Yu. V. 726, 2212-2213
Gamboa, C. J. 3060
Gamidov, Z. Z. 2081
Ganapathi, A. 460, 2159
Gancarz, R. 2907-2908
Gandrud, D. E. 3776
Gangstad, E. O. 2960
Ganguly, T. K. 2973
Gangwar, S. K. 900
Ganske, D. D. 332
Ganskopp, D. 136
Ganskopp, D. C. 148
Gantz, R. L. 1913
Garburg, W. 2702
Garcea, R. 3781
Garcia-Baudin, J. M. 140
Garcia Baudin, J. M. 1823
García D., E. 279
García, J. A. O. 946

García T., L. 2814
García-Torres, L. 499, 1070
García Torres, L. 2647
Gaskin, R. E. 247, 695, 1329
Gaşpăr, I. 597
Gaspari, R. A. 2550
Gasquez, J. 3133
Gast, R. E. 2665
Gastol, J. 2066
Gaudry, J. C. 2569
Gaullier, P. 77
Gaultney, L. D. 258
Gautam, R. C. 625-626
Gavazzi, M. 3314
Gavrilyuk, I. P. 141
Gavritova, L. 2135
Gawronska, H. 916
Gawronski, S. W. 205, 916, 1905
Gayed, S. K. 504
Gazdag-Torma, M. 947
Gaži-Baskova, V. 2829
Gaziev, M. T. 1317
Gbile, Z. O. 1028
Gealy, D. R. 452, 1858, 2264
Gebauer, S. 2325
Gebhart, G. E. 3270
Gee, D. 104
Geelen, J. A. 1295
Geervani, P. 3804
Gehlan, M. S. 3761-3762
Geiger, D. R. 1479
Gel'tman, D. V. 2161
Gentner, W. A. 1885
Georgiadi, A. G. 886
Gerbeaux, P. 176, 180
Gerber, K. 2848
Gerdol, R. 1831, 3314
Germond, B. J., Sr. 109
Gerstl, Z. 243
Gerts, S. M. 2894
Gesner, M. 3578
Getz, L. L. 3706
Geyer, W. A. 95, 2741, 3025, 3580
Geyt, J. P. C. van 2268
Ghanbari, A. 688
Ghani Ibrahim 1100
Ghazala Perveen 2520
Gheorghe, M. 2918
Gheorghiev, M. 2918
Ghersa, C. M. 2532
Ghildyal, N. 1393
Ghinea, L. 1585
Ghirnikar, A. D. 3326
Ghisolfi, S. 3577
Ghosh, A. K. 2682
Ghosh, D. C. 900, 2411
Giaretta, H. 724
Gibeault, V. A. 1306
Gibson, H. G. 258
Gichner, T. 1854
Giegużyńska, E. 879
Giesbrecht, J. K. 3427
Giessl, H. 2290
Giffard, S. C. 1122, 2269
Gilchrist, A. N. 1304
Giles, J. F. 352
Gill, H. S. 604, 3455, 3591
Gill, M. A. 16
Gill, R. S. 2584
Gillard, G. 349
Gillespie, G. 1000, 2660
Gillespie, G. R. 517, 1195, 2944, 2986
Gillham, L. B. 1228
Gilliam, C. 652
Gilmour, J. 2596
Gilmour, J. T. 903
Gilreath, J. P. 951, 1301-1302
Giménez, A. 1563, 1671, 3231, 3451, 3469, 3497, 3526
Gimesi, A. 837
Giorgio, D. de 3204
Giraldez, J. V. 1070
Giraudo, L. J. 1243
Giraudon, J. 3572
Gjata, F. 2430
Gjerstad, D. H. 1722, 1733, 1819, 2442
Gladysheva, N. M. 306, 1580
Glass, B. P. 982
Glass, R. L. 1969
Glassey, C. B. 2720
Glaze, N. C. 1695, 2124
Gleadow, R. M. 2116, 2163
Gleissl, W. 1091, 1867
Glenn, D. M. 3023
Glenn, S. 327, 535, 1138, 1947, 3764
Gliessman, S. R. 730
Gligvashvili, G. A. 1494
Glotfelty, D. E. 1947, 3389
Glover, G. R. 1722, 1741, 1819
Goatte, J. M. 1244
Godley, F. M. 269
Godley, J. L. 1233, 3126
Goeden, R. D. 3092
Goetz, A. J. 558
Gogisvanidze, T. A. 689
Gogiya, L. N. 689
Goh, K. M. 3261
Gojski, B. 2066
Goldstein, G. 1951
Golinowska, M. 3439
Golovko, A. I. 1213
Golyshin, N. M. 1198
Gomase, B. P. 3516
Gómez, B. C. 2772
Gómez-Sosa, E. 119
Gonnet, M. R. 1869
Gonsalves, D. 2226
Gonzáles, F. 1430
Gonzalez, F. E. 1333, 1724, 1732, 1981
González F., J. 31-32
González, J. 139
González, J. L. 2845
González Montaner, J. 1267
González Ponce, R. 872
Gooden, D. T. 43, 561
Goodman, R. M. 2265
Goodroad, L. L. 3163
Goodwin, M. S. 486
Goosem, M. W. 993
Gopal, B. 102, 421, 2958
Gorbachenko, F. I. 501
Gordon, A. J. 3108
Gorkol'tsev, A. K. 22
Gornik, A. 2432
Gorovaya, A. I. 523
Gorrell, R. M. 2659, 2982
Gorski, S. F. 248, 386, 443
Gorzelak, A. 3024
Goss, J. R. 236, 1689
Gossett, B. J. 496, 3043
Gotlieb, A. R. 3085, 3692
Gottlieb, Y. 2549
Goudey, J. S. 2876, 3287
Gouet, J. P. 446
Govindjee 3430
Goydani, B. M. 157
Graaff, J. L. 2780
Grabouski, P. H. 318
Grace, J. B. 457, 1419
Graetz, D. A. 2506
Graf, S. 2562
Graham, H. M. 191
Graham, M. A. 770
Graham, M. L. 2026
Graley, A. M. 742
Grant, C. D. 698, 766-771, 1087
Grant, W. F. 2581
Gräpel, H. 1642
Grassetti, C. 1534
Grassia, A. 472
Graves, C. R. 1576
Gray, M. 1218, 1780
Greaves, M. P. 527, 779
Greb, B. W. 319, 1592
Greco, N. 3804
Greenfield, P. L. 1212
Greenup, M. 697
Grega, E. 2598
Greil, J. 1976
Gressel, J. 1890, 2583, 2621
Greulach, L. K. 2984
Grewal, M. S. 2068
Grib, S. I. 3367
Gribova, Z. P. 528
Grichar, W. J. 2699, 3228
Gridasov, V. F. 2909
Griffin, J. L. 1197, 1230
Griffiths, D. 2632
Grigorenko, N. V. 2267
Grigor'eva, A. G. 501
Grillas, P. 174
Grime, J. P. 2501
Grimme, L. H. 1889
Griniusz, V. 3543
Grinyuk, V. G. 1199
Grissom, R. E., Jr. 3390
Griswold, H. C. 1732
Groenendael, J. M. van 1431
Grosjean, O. 596
Gross, K. L. 1765
Gross, P. 202
Grossenbacher, A. M. 555
Groth, D. 3630
Grou, E. 1585
Grover, R. 1963
Grover, S. 3181
Groves, R. H. 2524, 2953
Gruczek, T. 2066
Grunewald, R. 3175
Grupče, R. 2135
Grushkova, S. A. 2105
Gruzdev, G. S. 1167
Grzybowska, E. 368
Guastadisegni, C. 1496
Gubareva, N. K. 141
Gudkov, I. N. 582
Gueguen, F. 2024
Guerrero Laverat, S. 3206
Guest, R. 975
Guillerm, J. L. 2643
Guiraud, D. 1616
Gujral, G. S. 3788
Gulab Singh 2681
Guldin, R. W. 1742
Gulidov, A. M. 3444
Gunathilake, H. A. J. 971
Güncan, A. 3249
Gunnarsson, B. 3745
Gunsolus, J. L. 1412
Günther, G. 1462
Guo, Y. X. 3604
Gupta, O. P. 3061
Gupta, R. D. 1009
Gurjar, B. S. 2697
Gurka, D. F. 1921, 1927
Guş, P. 1189
Guscar, H. L. 2988
Gussin, E. J. 6
Guţanu, I. 2189
Guthrie, F. E. 3390
Guy, C. B. 1702
Guyer, D. E. 3189
Gwaltney, J. R. 1981
Haack, A. E. 3466
Haag, K. H. 785, 3334
Haagsma, T. 1557
Haas, P. 1907
Habecker, M. A. 3023
Haber, S. 1876
Habermehl, J. 1977
Habib, H. M. 2219
Habib, S. A. 3284
Hacker, J. B. 3799
Hackett, N. M. 2516, 2783, 3045
Hadač, E. 480
Haden, E. 1551
Haderlie, L. C. 205, 916, 1633, 1905, 2063
Hadley, B. A. 332, 334-335
Hageman, L. H. 2712
Hagood, E. S., Jr. 1646
Hagstrom, N. H. 3586
Hagwood, H. B. 45, 1229, 3507
Hahn, K. L. 2509
Hai, T. C. 964
Haibara, K. 3348
Hajek, B. 558
Hale, D. B. 3472
Haley, S. D. 909
Hall, A. B. 112, 2434, 2451, 2464
Hall, C. 1496
Hall, C. V. 1960
Hall, I. V. 1704
Hall, J. F. 2452
Hall, M. 2113
Hall, M. A. 1882
Hall, R. 2943
Hallberg, G. R. 3751
Haller, W. T. 151, 743
Hallgren, E. 288-289, 431-433, 3452, 3459, 3524-3525, 3538, 3588-3590, 3593, 3782
Halstead, S. J. 2992, 3155
Halwankar, G. B. 2388
Hamada, K. 2045
Hameed, K. M. 2223
Hamel, P. 78
Hamilton, G. 397
Hamilton, J. G. 2841
Hamilton, L. 58
Hamma, H. 3502
Hammes, G. G. 3521
Hammock, B. D. 1939, 1946
Hammond, R. B. 1600
Hammouda, F. M. 3617
Hamoud, M. A. 2890
Hampl, U. 1805
Hampton, J. G. 2136
Hamrick, J. L. 3633
Han, W. B. 2424
Han, Y. J. 1524
Hanbury, R. G. 172
Hanchar, J. J. 403
Hancox, N. G. 1875
Haney, P. J. 10
Hanf, M. 1958
Hankin, L. 1528, 1992
Hankins, S. D. 2943
Hanson, C. L. 2387
Hanson, D. 3568
Hanway, D. G. 3616
Haq, K. A. 2046
Haque, A. 566
Haque, M. S. 3790
Haramaki, C. 389
Haraszti, E. 2128
Harbaugh, B. K. 951
Hardcastle, J. E. Y. 2961
Hardcastle, W. S. 440, 3282
Hardman, D. G. 253-254, 257
Hardy, F. J. 3153
Hardy, J. K. 736
Hare, M. D. 2078
Hargeby, A. 177
Harger, T. 3686
Hargopal Singh 1561
Härig, R. 3020
Harika, A. S. 2973
Harley, E. L. 2497
Harley, J. L. 2497
Harley, K. L. S. 3086
Harman, W. L. 638
Harmon, C. D. 263
Harms, H. 1106
Harney, P. M. 3136
Haroun, S. A. 2890
Harper, P. P. 3674
Harrell, B. H. Jr. 1149
Harrington, D. K. 1633, 2063
Harrington, H. M. 145
Harrington, K. C. 2121
Harris, J. R. 256, 1238, 2229, 2556
Harris, M. S. 3117
Harris, V. E. 773, 3335
Harrison, H. F., Jr. 1637
Harrison, J. S. 457
Harrison, S. 668, 954
Hart, S. E. 314
Hart, W. G. 2710
Hartia, S. 266
Harting, S. L. 2292
Hartley, D. 1542
Hartley, M. J. 1299
Hartley, W. J. 1756
Hartman, G. L. 624
Hartmann, T. 2545
Hartnett, D. C. 454
Hartwig, N. L. 373
Harvey, B. M. R. 3128
Harvey, J. J. 12

Harvey, R. G. 316, 2604, 2992, 3028, 3155, 3666, 3727
Harvey, W. A. 3359
Hasan, S. 3687-3688
Hase, S. 995, 2475, 2877
Hasegawa, H. 2042
Hasegawa, P. M. 3734
Haskell, P. T. 3424
Haslam, S. M. 168
Hassan, E. A. 3496
Hassan, M. W. A. 2689
Hassan, S. M. 3735
Hassell, R. L. 386
Hassett, A. J. 3749
Hassouna, M. S. 907
Hastings, A. 1806
Hathaway, R. L. 3317
Hathway, D. E. 3722
Hatterman, H. M. 3018
Hatton, L. R. 2596
Hatzios, K. K. 309, 1125, 1464, 1904, 2271, 2580, 2587, 2972, 3137, 3720
Hauber, D. P. 3051
Hauerland, M. 3177
Haufler, C. H. 2824
Haughn, G. 1892
Hauke, R. L. 1785
Haunold, E. 3716
Hauser, R. K. 835
Hausvater, E. 3512
Hawf, L. R. 1714
Hawkins, B. A. 3092
Hawksworth, F. G. 185, 1860, 2835
Hay, J. V. 3378
Hayakawa, T. 1918
Hayden, T. A. 2627, 2970
Hayes, D. 3196
Hayes, R. M. 1211, 1576
Hayward, C. 1942
Haywood, J. D. 694
Hazard, W. H. L. 1750
He, T. 3650
Heacock, B. D. 2293
Headley, N. 255
Healy, A. J. 3193
Heath, L. A. 3016
Heathcote, C. A. 3292
Hebenstreit, U. 1657
Hebert, V. 2926
Heck, I. C. C. 1799
Heckele, K. 1745
Heege, H. J. 2025
Heering, D. C. 1307
Hegedüs, A. 2104
Hegman, A. R. 207, 2743, 2932
Heidler, G. 3049
Heilman, M. D. 2710
Heimbach, U. 1552, 1641, 1649
Heimer, J. B. 327
Hein, H., Jr. 1752
Heinonen-Tanski, H. 3164
Heinrichs, E. A. 578, 1089, 3078
Heintz, W. 1863
Heiser, C. B. 3290
Heisey, R. M. 2571
Heiss, A. 1658
Heitefuss, R. 1548, 1810
Helliwell, D. R. 79
Helmann, R. H. 2399
Helson, B. V. 3427
Hemmen, C. 1259, 1745
Henderson, J. C. 3285
Hendler, R. J. 112, 115, 2451
Hendrick, L. W. 285
Hendricks, L. 1323
Henegar, R. 2031
Heneidi, G. S. 1682
Hengeveld, R. 2298
Henly, S. 1209
Henly, S. J. 23
Henry, W. T. 1464, 1904, 2511
Hensley, D. 653
Hensley, D. L. 3243
Henson, M. A. 1558
Hepperly, P. R. 3642
Hera, C. 2669
Herdi, F. 1105
Herman, M. 2180
Hermann, B. W. 1944
Hern, L. K. 1344, 1726
Hernández, A. P. 184
Hernández Crespo, M. S. 554
Hernández, J. 1353, 1430
Herrick, R. M. 283
Herrmann, G. 1805
Herrmann, K. M. 3738
Herrmann, R. 2087
Hertz, L. B. 2734
Hertzman, T. 100
Herzog, R. 1191-1192
Hesen, P. L. G. M. 1799
Hesketh, K. 3563
Heslot, H. 2315
Hess, D. 1080
Hess, F. D. 522, 1114-1115, 3361
Hetherington, A. M. 1434
Hettiarachchi, P. L. 181
Heusler, K. 928
Hewett, R. H. 2596
Hewson, R. T. 5, 584, 590
Heyd, R. L. 3258
Hickman, M. V. 3768
Hicks, B. R. 310
Hicks, T. V. 3504
Hidayatj, I. R. 1038
Hideg, E. 2270
Higazy, M. A. 3325
Higgins, J. M. 1196
Higgins, M. L. 2610
Hijano, E. H. 2721
Hilje, L. 192
Hill, M. G. 1449
Hill, R. L. 1530, 2862
Hillebrand, H. 1355
Hillson, M. T. 2988
Hilton, J. H. 47
Hilton, J. L. 287
Hilton, J. R. 720, 2129
Himel, C. M. 42
Himme, M. van 13-15, 20-21, 24, 29, 38, 63, 274, 281, 348, 350, 353, 363, 376, 379, 383-385, 387-388, 392, 404-405, 407, 495, 1618, 1620
Hindáková, M. 1384
Hindersmann, U. 1636
Hindle, R. W. 2283
Hines, T. E. 340
Hinkley, R. B. 303, 3460
Hirose, T. 3295
Hirsh, E. 535
Hislop, E. 2633
Hoagland, R. D. 1123
Hoagland, R. E. 223, 2262
Hobbs, S. L. A. 2898
Hobé, J. H. 226
Hochól, T. 2182
Hock, B. 1943, 3148
Hocking, P. J. 2502
Hodson, M. J. 763
Hoefer, R. H. 395
Hoelper, A. L. 670
Hoffer, B. L. 2927
Hoffman-Pathy, Z. 3527
Hoffmann, J. H. 3109-3110, 3117
Hoffmann, L. 3528
Hofmann, B. 630
Hofstetter, W. 1814
Hogan, M. E. 1898
Hogrefe, W. 555
Hokkanen, H. 3705
Hokkanen, H. M. T. 1094
Holcomb, G. E. 3686
Holl, F. B. 1126, 2579
Holländer-Czytko, H. 3129
Holmes, M. G. 462
Holowid, J. R. 2983
Holt, H. A. 1114-1115, 2449-2450, 2746, 2767
Holt, J. S. 123, 651
Holt, T. 1715
Holub, J. 455
Holzapfel-Pschorn, A. 2507
Holzmann, A. 1844
Homeyer, V. 2277
Honegger, J. L. 221, 2885-2886
Hong, T. D. 1760
Hooda, I. S. 3202
Hoogland, D. 712
Hook, B. J. 327, 3127
Hoopes, R. 3347
Hopen, H. J. 2731
Hopkins, D. L. 2603
Hopkins, J. A. 1235
Hopkins, W. L. 3419
Hopper, D. M. 343
Horak, M. J. 123
Horbowicz, M. 3011
Horner, L. M. 2911
Horner, N. A. 152
Hornford, R. G. 904
Horsburgh, R. L. 775
Horsley, S. B. 88, 1818
Horsnail, G. B. 250, 3449
Horton, R. F. 2486, 3321
Hosamani, M. M. 3303
Hoshina, T. 2739
Hosking, J. R. 3111
Hosmani, M. M. 3304
Hosoi, Y. 1926
Hossain, S. M. A. 2800
Houliaras, A. 3541
House, G. J. 3772
Housley, T. 1080
Housley, T. L. 1802
Houston, W. 2122
Houtz, R. L. 3649
Hoveland, C. S. 3234
Howard, H. S. 1987
Howe, C. D. 475
Howe, J. 254
Hoyt, S. C. 3332
Hrbáček, J. 3450
Hristić, Đ. 2757
Hristov, I. 2757-2758
Hsiao, A. I. 717, 1759, 1763, 1803, 2471
Hu, H. J. 178
Hu, N. B. 3363-3364
Huang, C. W. 3076
Huang, J. T. 3663
Huang, P. M. 2929
Huang, W. Z. 1759, 1803
Huayta, I. 3347
Hubáček, J. 3144
Hubbard, C. E. 2642
Hubbard, H. D. 675
Huber, S. J. 1476, 1943, 2289, 3148
Hubner, W. 361
Huda, A. K. S. 900
Hudon, M. 1090
Hudson, A. A. 9
Huet, P. 1200
Huff, H. P. 1583
Huff, P. 1577
Huggenberger, F. 1972, 2024
Hughes, A. 664
Hügin, G. 1428
Hulbert, J. C. 2801
Hulesch, A. 3373
Hulesch, A. 2673
Hulina, N. 2200
Hume, D. J. 3146
Hume, L. 1770
Hummel, J. W. 1524, 3475
Hummel, W. 624
Humphrey, D. 1673
Hunter, D. J. 1123
Hurduc, N. 266
Hurle, K. 2290, 3395, 3440
Hurst, H. R. 1242, 2408, 3520
Hurto, K. A. 2434
Hurtt, W. 526
Husain, S. 1930
Husain, S. I. 2240
Husák, S. 105
Hussaini, S. S. 2718
Huston, F. 865
Hutchinson, S. A. 2462
Hutchinson, W. 1743
Hütter, R. 555
Ibarra, F. A. 1680
Ibrahim, A. F. 1569, 3523
Ice, J. 2499
Igarashi, H. 1473
Iggo, G. 1276
Ignatov, M. S. 2142
Ignatov, V. A. 1290
Igrc, J. 2248
Ikai, T. 1473, 1482
Ikeda, M. 211, 1463, 2259
Ikramullah, M. 3789
Ila Chaudhuri 461
Il'ina, E. G. 3708
Ilnicki, R. D. 283, 330, 336-337, 339, 396, 1261
Iluz, S. 2433
Imai, Y. 830, 2314
Imevbore, A. M. A. 133
Imperial College of Science and Technology, United Kingdom 574
Inculeţ, E. 2918
Indonesia, Research Institute for Animal Disease 3600
Indonesia, South-East Asian Regional Center for Tropical Biology 1537, 2952
Indrea, D. 1289
Induni, S. 2227
Ingle, A. 1286
Ingle, W. S. 3516
Inoue, H. 1443
Insausti, P. 3235
Instituto Nacional de Tecnología Agropecuaria 858
International Atomic Energy Agency 3422
International Center for Agricultural Research in the Dry Areas 2385
International Center for Tropical Agriculture 3431
International Institute for Sugar Beet Research 2000
International Pest Control 857
International Plant Protection Center 2959
International Society for Horticultural Science 856
Inya-Agha, S. I. 3416
Ionescu, F. 602, 1567
Iqbal, M. S. 322
Irbe, I. K. 802
Irigoyen, J. H. 418
Irvin, T. R. 3033
Irvine, J. A. 199
Irvine, K. 487
Irzyk, G. P. 3361
Isaev, V. V. 873, 1173
Isahaque, N. M. M. 507
Ishikawa, K. 541
Ishizuka, K. 3379-3380
Isikov, V. P. 2221
Islam, M. 2773
Islam, M. A. 2800
Islam, M. Z. 2046
Islam, N. 1390
Ismael, F. K. 707
Ismail, A. A. 403
Ismail, M. H. 2219
Itai, C. 2878
Ito, M. 3300
Ito, T. 541
Ito, Y. 1929
Ivanchenko, V. A. 545
Ivanovskiĭ, V. T. 1257
Ivany, J. A. 883, 2367
Ivashkin, V. I. 612
Iverson, R. 2745
Iverson, R. D. 2742
Ivezić, M. 2238, 2338
Iwamura, H. 231
Iwataki, I. 2280
Izhevskiĭ, S. S. 1093
Izquierdo i Casas, J. I. 1050
Izumi, K. 2255
Jachetta, J. J. 2884
Jackson, C. G. 191
Jackson, L. A. 2993, 3477
Jackson, L. W. 93-94
Jackson, N. E. 1683

Jacobi, W. R. 2835
Jacobs, M. 2268
Jacobsen, S. 3564
Jacobsen, S. E. 754, 2536
Jacobsohn, R. 860, 1063, 2469
Jacobson, M. 1994
Jadhav, N. S. 752, 898, 2409
Jagschitz, J. A. 952
Jagschiz, J. A. 393
Jain, R. 2836
Jain, S. K. 3788
Jamard, J. M. 1692
Jamardo, A. 724
James, L. F. 120, 439, 1756, 3034, 3037
James, T. K. 1218
Jamil, K. 1896
Jamir, N. S. 1386
Janarthanam, M. K. 1401
Janczak-Tabaszewska, D. 751, 2067
Jandera, P. 1932, 2287
Janecek, C. 1493
Janić, D. 2758
Janjić, V. 2339
Janković, R. 2733
János, É. 3765
Jansen, A. E. 1565
Jansen, H. 2342
Jansen, H. G. 1565
Jansen, M. A. K. 226
Janssen, J. 1074
Janssen, K. A. 2987
Jansson, L. 814
Januma, T. 2425
Janzen, G. C. 1731
Jarczyk, H. J. 1140
Jarolímek, I. 479, 747
Jarrell, W. M. 132
Jaskulska, E. 2907-2908
Jassany, R. F. Al- 2242
Javier Gamboa, C. 1413
Jayakumar, R. 3067
Jędruszczak, M. 3311
Jelić, A. 2238
Jelínek, J. 3578
Jensen, K. I. N. 661, 1704, 1919, 2303, 2436
Jensén, P. 268
Jensen, S. R. 2224
Jerath, N. 2822
Ješko, T. 530, 534
Jessep, C. T. 2862
Jessup, D. A. 1354
Jevtić, S. 2339
Jit, S. 3181
Jodha, N. S. 3804
Johansson, S. 177
John, P. S. 1825
John, W. W. 3372
Johnson, A. E. 116
Johnson, A. W. 2331
Johnson, B. J. 400
Johnson, D. W. 1860
Johnson, J. E. 2744
Johnson, J. L. 1570
Johnson, J. R. 3520
Johnson, K. D. 2650
Johnson, Q. R. 296
Johnson, R. G. 2479
Johnson, R. W. 2153
Johnson, V. A. 468
Johnson, W. C. 2813
Johnson, W. C., III 27, 162, 2964
Johnston, G. 44
Johnston, G. B. 296, 333
Johnston, S. A. 381
Joley, D. B. 2565
Jones, A. 1637
Jones, A. G. 1316
Jones, A. O. 1162
Jones, B. J. F. 665
Jones, L. A. 204
Jones, M. B. 183
Jones, R. T. 351
Jons, V. L. 1194
Joplin, C. E. 1572
Jordan, C. 1720
Jordan, L. 1803, 1809
Jordan, M. L. 1983
Jordan, T. N. 2461, 3178
Josefusová, Z. 1373-1374
Joseph, P. A. 1051
Jourdan, C. 950, 3215
Journal of Pesticide Science 820, 2301
Jouy, L. 3173
Jowers, H. E. 2386
Joyce, D. C. 2833
Juby, M. 2660
Julien, M. H. 3701
Jung, Y. K. 3532
Jungnickel, F. 1345
Junk, G. A. 1499, 1509
Junnila, S. 290
Jury, W. A. 2930
Kabassakalis, V. 3636
Kachroo, P. 750
Kadhim, A. A. 3337
Kadman-Zahavi, A. 2493
Kadota, G. 2328
Kadoum, A. M. 2293
Kadyrov, Ch. Sh. 810
Kafarov, R. S. 532
Kafarski, P. 2907-2908
Kahl, H. 2812
Kahnt, G. 1179, 1584
Kaichara, S. 1459
Kaigate, B. 267
Kaihara, S. 1460, 1465
Kain, D. P. 359
Kairesalo, T. 182
Kairon, M. S. 3202
Kak, A. M. 1788, 2820
Kalff, J. 1403
Kalinin, O. M. 3708
Kalinina, N. F. 943
Kalinović, D. 2750
Kallak, H. 2263
Kállay, P. 3000
Kalloo 2728
Kálmán, E. 2291
Kalmus, A. 737-738
Kalousková, N. 2306
Kalra, D. S. 3038
Kaluz, S. 559
Kalyakin, A. B. 2119
Kamada, Y. 3300
Kameneva, E. A. 1208, 2060
Kameya, T. 1015
Kamicker, T. A. 40, 1231
Kamilova, R. M. 811
Kamo, E. 541
Kamoshita, K. 3719
Kanazawa, J. 3398
Kandasamy, M. K. 1361
Kandasamy, O. S. 2047
Kandil, A. A. 1569
Kandpal, M. M. 2837
Kaneko, K. 611
Kania, C. 2297
Kannangara, H. W. 2169
Kanwar, K. 2828
Kapeluszny, J. 1423
Kapitan, S. W. 1479
Kapoor, B. M. 3627
Kaps, M. A. 415
Kapusta, G. 2692, 2985, 3218
Karagodina, O. A. 1048
Karamán, J. 2999, 3068
Karapetyan, N. V. 1144
Karataglis, S. 3636
Karavaev, V. A. 798
Karban, R. 1087
Kareiva, P. 3342
Karim, S. M. R. 3301
Karlsson, S. 3755
Karnok, K. J. 2817
Károly, G. 2924
Karpenko, I. F. 1629
Karr, B. L. 1731
Karuppuchamy, P. 3344
Kas'yanenko, N. A. 921, 924
Katiyar, S. K. 846
Katoh, Y. 1443
Katsyutsevich, E. V. 1150
Katyal, S. K. 2379, 3278
Kauffman, J. B. 3267
Kaufman, J. E. 3490
Kaul, P. 2325
Kaushik, K. D. 3570
Kavani, H. D. 628
Kavolyunaïte, I. A. 1148
Kawamura, Y. 1482
Kawanabe, S. 2535
Kawanishi, T. 1442, 3073
Kawase, S. 2299
Kawczyński, J. 2701
Kayani, S. A. 2489
Kearney, P. C. 1505, 1885, 2925
Keaster, A. J. 2616
Kedik, L. M. 2286
Kee, W. E. 374
Keeler, R. F. 116
Keeley, P. E. 1037, 2166, 3229, 3517, 3623-3624
Keeling, J. W. 1638, 2870
Kees, H. 48, 493, 1654, 1658, 1676, 2028
Kehinde, J. K. 1594
Keisers, J. T. 3483
Kelekhsaeva, E. A. 545
Kelleher, J. S. 3675
Kelley, G. J. 1602
Kelley, T. L. 3121
Kells, J. J. 2, 3217, 3219, 3272
Kelly, D. 1278, 1425
Kelpsas, B. R. 1740
Kemboi, M. P. 3233
Kemmer, A. 3395, 3440
Kempczyńska, D. 3522
Kempen, H. M. 1265, 1639
Kempuchetty, N. 3067
Kendrick, R. E. 3279, 3429
Kenimer, A. L. 3162
Kennedy, J. M. 1542
Kennedy, S. C. 1164
Kenney, D. S. 788
Kent, A. 2599
Kenyon, W. H. 529
Kerefov, K. N. 941
Kern, H. 1102, 3681, 3693
Kerr, H. D. 2616
Kerr, R. M. 1318, 1325
Keshtov, Yu. A. 1320
Ketchersid, M. L. 2377
Kettle, W. D. 2293
Keuren, R. W. van 3533
Keys, M. J. 2073
Khalid, M. 3208
Khalid, S. A. 186
Khalida Khatoon 2215
Khalilov, I. M. 1180
Khamadeev, R. Kh. 915
Khan, A. H. 425
Khan, A. T. 3790
Khan, D. 2520
Khan, D. U. 1390
Khan, M. W. 2241
Khan, S. U. 244
Khandekar, M. P. 2697
Khanna-Chopra, R. 3804
Khanna, P. 2949
Khanna, R. 187
Khare, M. N. 2620
Khar'kov, G. D. 371, 1667
Khattab, A. F. 99
Khikmatov, A. 364, 811
Khludov, A. D. 866
Khodayari, K. 326, 903, 1827, 2382, 3492, 3735
Khodeeva, L. V. 212
Kholmov, V. G. 22, 1562
Khosla, S. N. 3147
Khovanskaya, G. I. 1014
Khristova, L. 3510
Khuong, N. B. 2846
Khurana, J. P. 1377, 1466, 2138, 3072
Khurana, S. C. 2088, 2405, 2728
Khurshid Alam 2976
Khusahry, M. Y. M. 3601
Khushk, M. T. 2148
Kibler, E. 3395
Kidd, C. R. 884
Kidd, F. A. 1726, 1734, 1986
Kidd, H. 1542
Kidder, D. W. 2494
Kidrishev, T. K. 606
Kiefer, J. 2025
Kiehn, F. A. 305
Kikuyama, M. 1439
Kilpi, S. 3164
Kim, D. A. 2424
Kim, H. B. 1856
Kim, H. S. 1089
Kim, J. G. 3539
Kim, Y. J. 2424
Kimball, E. R. 1704, 1919, 2303
Kincaid, D. T. 1365
King, J. W. 1308, 1701
King, K. 1739
King, M. 3435
King, R. P. 887, 1589
Kirchhoff, J. 2290
Kirillova, G. A. 2368
Kirino, O. 1909, 2279, 3500
Kirkbright, G. F. 2912
Kirkland, K. 833
Kirkpatrick, L. A. 1861
Kirkwood, R. C. 2573, 2575, 2883, 3122, 3723
Kirollos, M. A. 3325
Kirti Singh 2099
Kis, A. D. 3515
Kiser, J. 3371
Kishaba, A. N. 3333
Kishimba, M. A. 1079
Kishimoto, U. 1438
Kishore, G. M. 515, 3370
Kishtah, A. A. 2219
Kišpatić, J. 2022, 2338
Kitchen, L. M. 159, 1197, 1233, 3126-3127
Kitt, J. 657
Kiver, V. F. 888
Klaassen, H. 1579, 1640
Klaine, S. J. 701
Klammer, N. 1486
Klauzer, J. 1555
Klein, A. J. 2911
Klein, B. K. 515, 3370
Klein, R. N. 2941
Klein, R. R. 2264
Klein, W. 3152
Klemm, L. 3543
Kleopfer, R. D. 2300
Klepal, I. 3578
Klescht, V. 480
Kline, W. N. 1344
Kline, W. N., III 1726, 1734, 1986
Klingenschmidt, D. 1640
Kloot, P. M. 1779, 2528
Kluge, R. L. 3102, 3108
Kmetz, K. 871
Knake, E. L. 2792, 3411
Knauer, N. 1047
Knauf, W. 2916
Knežević, M. 2197
Knight, D. H. 167
Knoll, B. A. 3726
Knott, L. 2726
Knox, J. P. 2895
Knuth, M. L. 2292
Knutson, D. M. 1060
Kobayashi, T. 1957
Koblov, R. K. 364
Kobylinski, E. A. 1502
Koch, W. 1977, 2344, 3241
Kock, N. D. 1354
Koebernick, D. E. 2651
Koeman, J. H. 2298
Koeppe, D. E. 2264
Koeppe, M. K. 1886
Koerwer, J. F. 1916
Köhler, K. H. 2875
Kohli, R. K. 745
Köhn, F. 26
Kojić, M. 2145
Kojima, K. 995, 2475, 2877
Kojima, T. 1996
Kok, L. T. 774, 783, 1451, 3093
Kokareva, E. E. 806
Kolaib, M. O. 3353
Kolar, J. S. 64
Kolesnikov, V. A. 1290

Koltunov, N. A. 631, 1624, 1974, 2705
Komarova, V. P. 2894
Komenda, B. 1648
Komenda, K. 1648
Komenda-Ronka, J. 1648
Kőmives, A. V. 3373
Kőmives, T. 2673, 3373
Komkov, D. Ya. 1199
Komm, D. A. 1646
Konarev, V. G. 141
Konate, A. 3476
Kondár, L. 3530
Konde, B. K. 2618
Kondratenko, V. I. 870, 1021
Kondrat'eva-Mel'vil', E. A. 2131
Koning, R. E. 1883
Könnig, M. 3149
Kono, Y. 1378
Konopinski, V. J. 3154
Konstantinović, B. 2750, 2753
Konz, M. J. 1912
Koomen, G. 546
Kopecký, M. 2649
Koppenhol, D. L. 1366
Korikanthimath, V. S. 755
Kőrösmezei, C. 3655
Korovina, L. M. 308, 1487
Korte, F. 2087
Kosganski, Z. K. 301
Koshioka, M. 3398
Kosinski, R. J. 565
Kosinski, W. G. 2449, 2767
Koskinen, W. C. 2937
Kőstoglou, I. 3541
Kostov, D. 2429
Kostov, K. 2076
Kostowska, B. 547, 1216
Kostyál, Z. 1010, 3597, 3632
Kostyuk, S. V. 3665
Koszanski, Z. K. 1478
Kotar, J. 2444
Koteswari, M. V. 1843
Kothekar, V. S. 2158
Kotlyarova, T. I. 735
Kouwenhoven, J. K. 1615
Kovačičová, J. 3176
Kovács, A. 599, 3646
Kovács, I. 3652
Kovács, M. 3765
Kovalev, O. V. 3708
Kovář, P. 478
Kovasznay, B. M. 1492
Kozachuk, A. M. 1254
Kozak, M. E. 316
Kozicki, K. K. 3463
Kozlov, F. P. 919
Kozlova, I. I. 826
Kozu, T. 1926
Kral, C. W. 1558
Kramarenko, V. M. 852
Kramer, J. W. 3387
Krans, J. V. 958, 2435
Kratochvíl, P. 3512
Krause, A. 3151
Kravkina, I. M. 1850
Kravtsov, A. A. 840
Kravtsova, T. I. 2132-2133
Kreh, R. E. 2117
Krekule, J. 1370, 1372, 1374
Kremer, R. J. 2616
Kress, B. 2018
Kreuz, E. 605, 2653
Krieg, D. R. 147
Krieger, K. A. 3387
Krippelová, T. 748
Krishnamurthy, S. 2715
Kříž, J. 3578
Krogmann, H. 2307
Kronenberg, G. H. M. 3429
Kropff, M. J. 1067
Kroyer, G. 1486
Kr"steva-Kostova, Z. 3571
Krueger, R. F. 1527, 1541
Krüger, U. 3020
Krumrey, G. 1675
Krupińska, A. 1171
Krutz, G. W. 258
Kubat, J. 2287
Kubát, K. 729
Kübler, E. 1584
Kuch, P. J. 2637
Kude, C. 2276
Kudela, M. 3579
Kugimoto, M. 1465
Kuhn, M. 227
Kuhns, L. J. 389, 415, 984
Kuiper, D. 3052
Kujawski, P. T. 201
Kuka, J. 609
Kukula, S. 3804
Kukula, S. T. 1566
Kukushkin, A. K. 798
Kukushkin, V. S. 540
Kulandaivelu, R. 627
Kuldeep Singh 3147
Kulebyakin, Yu. I. 308, 1487
Kulik, A. F. 523
Kulik, L. V. 2097
Kulshrestha, G. 1139
Kultaev, K. K. 364
Kumar, A. 2363, 2996
Kumar, B. K. V. 1840
Kumar, B. M. 2679
Kumar, J. C. 3558
Kumar, K. 3670
Kumar, N. 846
Kumar, R. 2231
Kumaresan, K. R. 847
Kumari, A. 745
Kumari, K. 1922
Kundu, A. L. 1533
Kunelius, H. T. 1653
Kunert, K. J. 1902
Kunezaki, K. 2425
Kunitsa, V. M. 888
Kuntsman, J. L. 1935
Kunze, A. 1191
Kuo, T. L. 3145
Kurachi, S. A. H. 1716-1717
Kurakov, V. I. 1813
Kuramoto, J. 809
Kurbanov, A. I. 364
Kurien, P. P. 3804
Kurota, A. 2473-2474
Kurtz, A. R. 1513
Küsel, A. C. 1889
Kushal Singh 2068
Kushkhov, Kh. M. 612
Kushwaha, B. L. 3553
Kutsan, A. T. 1495
Kutuzov, G. P. 934, 1208, 1588, 2037
Kuwano, E. 2906
Kuwatsuka, S. 819, 822, 830, 1518-1520, 2314
Kuznetsov, N. I. 2060
Kuzuoka, S. 541
Kvasov, V. A. 1628, 1940
Květ, J. 105
Kvien, J. S. 240, 3156, 3756
Kwon, C. H. 2424
Kyser, G. B. 1293
La Rossa, R. A. 2272
Laasch, H. 2312
Labrada, R. 1296, 1353, 1359, 1429-1430
Labza, T. 2182
Laca-Buendia, J. P. 845
Ladonin, V. F. 232, 297, 919
Ladygina, M. E. 801
Lagoke, S. T. O. 1252
Lagriffol, J. 2544
Lahham, J. N. 1391
Lai, M. 3534
Laillet, G. 1758
Laing, J. E. 3116
Lakamchenok, A. N. 866
Lake, G. G. 3666
Lalatta, F. 2106
Lalonde, R. G. 2250, 3097
Lam, G. K. 't 1079
Lambe, R. C. 1864
Lamberti, G. A. 767
Lamela, A. 872
Lamoureux, G. L. 1127, 2253, 3393
Lane, F. E. 1419
Lanetskiĭ, V. P. 1159
Lange, A. H. 647, 1319, 1744, 2310, 3555
Lange, F. K. 1744
Langebartels, C. 1106
Langemeier, M. A. 331
Langston, M. A. 2550
Lanini, W. T. 311
Lapham, J. 3531
Lapshin, L. V. 612, 866
Larigauderie, A. 463
Larsen, B. R. 1185
Larsen, T. E. 2694
Larsson, K. 1771
Lascu, I. 602
Laskay, G. 804
Lastra, R. 1876
László, I. 3513
Lateef, S. S. 3804
Lathrop, G. D. 715
Latterell, F. M. 1871
Lattke, H. 737
Lauer, R. 2911
Laureti, D. 1269
Lavrenko, A. N. 2154
Lavrent'ev, A. A. 538
Lavy, T. L. 298, 556, 1931, 1952, 3763
Law, J. T. 655, 1305
Law, M. E. 2713
Law, S. E. 3170
Lawson, G. J. 3182-3183
Lawson, H. M. 355-356, 658, 660, 669
Lawton, J. H. 200
Lay, M. M. 3753
Laycock, D. 3502
Le Floch, D. 1215
Le Strange, M. 3567
Le Van To 1971
Leach, S. S. 351
Learned, L. W. 2663
Leather, G. R. 201, 1145
Lebedeva, G. F. 827
Lebershteĭn, I. I. 2036
Leblová, S. 3376
Lebskiĭ, V. K. 2051
Ledbetter, M. C. 3657
Lee, A. H 3726
Lee, C. H. 2313
Lee, D. W. 3605
Lee, G. A. 713
Lee, H. H. 3532
Lee, J. M. 3633
Lee, J. Y. 3539
Lee, M. H. 3077
Lee, P. S. 3532
Lee, P. W. 1910, 1954-1955
Lee, R. D. 1881
Lee, S. A. 1100, 2481-2482, 3740
Lee, S. B. 3539
Leela, D. 2428
Lefebvre, A. 2569-2570
Lefter, V. 2189
Łegowiak, Z. 2058
Leguizamón, E. S. 1005
Lehela, A. 85
Lehmann, J. 1679
Lehmann, M. 3313
Lehmann, V. 2774
Lehoczki, E. 804
Leichtweis, H. C. 1933
Leidy, R. B. 237
Leistra, M. 3159
Leitch, C. 238
Lejczak, B. 2907-2908
Lejoly, J. 2490
Lekeš, J. 2649
Lembi, C. A. 985, 2914
Lemerle, D. 303, 884
Lemir, A. H. Morán 3075
Lemoine, Y. 2266
León, J. J. 2457
León, J. L. de 1869
Leonard, W. F. 1660
Lepekhin, N. S. 2095
Lepš, J. 478
Lerohl, M. L. 1993
LeRoux, E. J. 1090
Leroux, G. D. 3003
Leroux, P. 2315
LeRoy, R. L. 1573
Lersten, N. R. 2825-2826
Leş, M. 597
LeŠage, L. 195
Leska, L. 2058
Leslie, D. M., Jr. 84
Lestrange, M. 3567
Leszczyński, W. 634
Leth, V. 3711
Letschert, J. 1406
Leuven, R. S. E. W. 1799
Levine, E. 2842
Levitt, G. 3743
Levy, D. 860
Lewis, J. B. 1331, 2117
Lewis, S. A. 2558
Lewis, W. M. 1700
Leydecker, M. T. 2586
Leys, A. 436
Leys, A. R. 303, 1746, 3460
Leyva, A. 74
Lherminier, J. 812
Li, N. 3363-3364
Li, P. H. 794
Li, S. R. 1223
Li, X. B. 3363-3364
Li, X. N. 3650
Li, X. W. 2559
Li, Y. D. 2140
Li, Z. Z. 3669
Liau, S. S. 1100
Libershteĭn, I. I. 923, 1146
Lichy, C. T. 1725
Liebenberg, J. J. E. 3749
Liebl, R. 3027
Liebman, M. 1188
Light, D. M. 498
Lignowski, E. M. 1232, 3384
Liljedahl, L. A. 3389
Lill, W. J. 2168
Lim, C. Y. 1718
Lim, S. H. 2424
Lima, A. de A. 2111-2112
Lin, Z. T. 3604
Lindberg, C. A. 2292
Linden, M. J. H. A. van der 1031
Lindgren, C. B. 378
Lindner, W. 543
Lindow, S. E. 850, 1104, 3682
Lindsay, I. S. 3427
Lindstrom, M. J. 2372
Lindstrom, O. M. 2483
Ling, L. C. 498
Linhart, J. 1420
Link, V. 3149
Linscott, D. L. 210
Linskiĭ, A. M. 892
Lipecki, J. 2738
Lish, J. M. 1578
Lisowski, S. 2490
List, G. A. 3219
Litsinger, J. A. 578, 1448, 3343, 3673
Little, D. L. 330
Littlefield, L. J. 3689
Litvinov, P. I. 2105
Litwiniec, J. 368
Litz, N. 2308
Liu, A. 3357
Liu, S. H. 2612
Livingstone, C. 1401
Livochka, V. P. 889
Llacer, G. 2554
Lloyd, R. W. 1638
Lockaby, B. G. 3257
Loewen, M. 998, 3609
Loftis, D. L. 980
Logub, I. A. 1590
Logvinenko, V. F. 2267
Loh, W. 1917
Löhr, W. 2019
Lolas, P. C. 365, 639
Long, C. E. 3025, 3580
Long, J. D. 3435
Long, J. H. 236
Longauer, Š. 2038
Longauerová, J. 3470
Longer, D. E. 1204
López Bellido, L. 1599
López Gorgé, J. 1128
Lorena Vargas, A. 1413
Lorenz, W. 2087

Lorenzo, E. 3406
Loria, R. 351
Lott, C. S. 951
Lotter, L. H. 3747
Lovegrove, A. W. 589
Lovett, J. V. 445, 465, 467, 1045
Lowery, C. A. 962
Loxdale, H. D. 2236
Lozanovski, R. 2340, 2815
Lozinska, E. 2135
Lubigan, R. T. 2531
Lubini, A. 2526
Lucansky, T. W. 1848
Lucas, M. M. 2593
Ludva, V. 864
Ludvová, A. 864
Lueschen, W. E. 2459
Lukaszewski, T. 1953
Lund-Høie, K. 3375
Lundberg, T. 2447
Lundehn, J. R. 1949
Lunev, M. I. 2071
Lunsford, J. 2400
Lusk, E. E. 698, 766-771, 1087
Luthe, D. S. 234
Lutman, P. J. W. 7, 589
Lyashchenko, A. I. 892
Lybecker, D. W. 887, 1589
Lydkova, V. D. 3514
Lydon, J. 3351
Łyduch, L. 369
Lyfenko, S. F. 470, 3368
Lym, R. G. 931, 988, 1023, 1948, 3294
Lyman, G. 389
Lynch, S. P. 3340
Lynd, S. 1461
Lynd, S. J. 1057
Lynn, D. G. 1081
Lyon, D. J. 1294, 3012
Lyon, M. J. H. de 490
Lysenko, A. K. 866
Lysenko, N. L. 825
Lyttle, L. A. 1283
Maass, D. 89, 91, 1720
Maass, V. 2307
Mabb, L. P. 991
McAllister, R. S. 2990
McAlpine, J. F. 3349
McAvoy, T. J. 1451
McCaffrey, J. P. 775
McCain, A. H. 3690
McCall, P. J. 224, 1887
McChesney, M. M. 1965, 2311, 2915, 3397
McClary, R. D. 624
McClay, A. S. 3112, 3356
McClean, S. P. 46, 1617
McConnaughay, K. D. M. 2202
McConnell, J. S. 1514
McConnell, S. G. 370
McCormack, M. L., Jr. 84, 86, 90, 983, 2443
McCormick, C. S. 440, 3282
McCormick, R. A. 2662
McCourty, G. 2102
McDaniel, S. 1027
MacDiarmid, B. N. 1287
MacDonald, D. A. 2650
McDonald, H. J. 1193
McDonald, M. B. 443
Macêdo, A. M. 1815
Macedo, G. A. R. 845
Maček, J. 2719
Maceljski, M. 2246, 2248
McElwee, M. 199
McEvoy, P. B. 2874
McFadyen, P. J. 3091, 3113, 3354
McFadyen, R. E. 3713
Macfarlane, M. J. 2422
McGee, C. E. 980
McGinnity, P. J. 1229, 2991
McGlew, E. N. 1292
McGraw, R. L. 2082
McGuire, J. A. 3186
Macháčková, I. 1370
Machado, J. R. 471, 1250
Machado, L. R. 776
Machado, S. R. 644
McHenry, W. B. 978
Macherel, D. 229
McIntyre, G. I. 2471
Mack, T. P. 3339
Mackasey, M. M. 2651
MacKay, T. S. 86, 90, 1739
McKay, W. A. 3441
McKelvey, R. A. 2982
McKenzie, D. L. 2412
Mackenzie, J. 1147
McKenzie, R. A. 3040
Maćkowiak, G. 2058
Macksel, M. 66, 390
McLaren, J. S. 3467
McLean, B. T. 2641
McLean, H. S. 1715, 3506
McLemore, B. F. 1339, 2748-2749
MacLeod, A. 1426
McLeod, D. M. 3166
McMaster, S. A. 1913
McMillan, R. T., Jr. 1694
McMullen, M. 1194
McMullen, R. D. 772
McNeil, W. K. 2654, 2714
McNeill, J. 1791
McNevin, G. R. 316
McPherson, G. R. 62
Macrí, A. 1496
McSorley, R. 1694
McWhorter, C. D. 3171
McWhorter, C. G. 3032
Madarász, J. 708
Maddox, D. M. 498, 2565
Maddux, L. D. 2987
Madhun, Y. A. 242
Maesen, L. J. G. van der 3804
Maggenti, A. R. 3346
Magnifico, V. 2098
Magnusson, G. 291
Magnusson, M. U. 2484
Magruder, F. W. 382
Magyar, J. 3009
Mahady, M. M. 655, 1305
Mahalle, S. S. 2676
Maheshwari, S. C. 1377, 1466, 2138, 3072
Maiga, S. D. 3502
Maillette, L. 1807
Maimoni-Rodella, R. C. S. 1099
Mainwaring, A. M. 3182-3183
Maity, S. K. 2967
Maizonnier, D. 2569
Majek, B. A. 381, 645, 677
Majeríková-Hlaváčková, J. 2666
Majeríková, J. 601
Majewski, M. S. 1965
Májovský, J. 1382
Makarov, A. D. 2894
Makeev, A. M. 206, 2903
Makeev, Yu. N. 3769
Mäkinen, S. 3164
Makino, K. 809, 1482
Maksoud, M. A. 1882
Maksymowych, R. 3657
Malak, N. N. Abdel 3502
Malan, C. 2574
Malavia, D. D. 628
Malaysia, Malaysian Agricultural Research and Development Institute 2950
Malaysian Plant Protection Society 3420
Malhotra, C. L. 1400
Malhotra, R. S. 3804
Malicki, J. 3328
Malicki, L. 1424, 3298, 3644
Maliga, P. 1894
Malik, J. P. S. 2110
Malik, R. K. 2352, 2380, 3201, 3278, 3495
Malik, Y. S. 2405
Malinauskas, A. K. 1662
Malkomes, H. P. 560, 829
Mallipudi, M. 207, 2932
Mallipudi, N. M. 3726
Maloy, B. M. 71
Mamudi, D. 2754
Mamun, A. A. 2800, 3301
Mandal, B. B. 2967
Mandava, N. B. 1929
Mándoki, A. 947
Mani, V. P. 613
Manickam, T. S. 847
Man'ko, Yu. P. 680
Manley, D. G. 510
Mann, R. K. 1117
Manning, D. T. 1916
Mannino, M. R. 1220, 1226, 2437
Manser, P. D. 3482
Mansfield, T. A. 1434
Mansor, M. 179
Mantai, K. E. 466
Manthey, F. A. 3725
Marászi, L. 3566
Maraite, H 2304
Marcondes, D. A. S. 471
Mardon, M. 1368
Marfull Suñé, J. M. 3198
Mariati Mohammed 1100
Marin, A. 3573
Mariot, C. 3485
Markina, L. G. 513
Markley, L. D. 1915, 2904
Marković, A. 2195
Marković, M. 2356
Marley, J. M. T. 1545, 2123
Marlow, H. 1284, 3007
Marques, J. B. B. 2978
Marrero, E. 2772
Marro, M. 2437
Marrs, R. H. 3004-3005
Marshall, E. J. P. 165, 419
Marshall, G. 706, 716, 2573, 2575
Martin, A. G. 3178
Martin, A. R. 1508, 2606, 2615, 3220, 3237
Martin, B. B. 702
Martin, D. A. 2359
Martin, D. F. 702
Martin, D. J. 2573, 2575
Martin, M. H. 1680
Martin, M. P. L. D. 690, 2508
Martin, P. 1279
Martin, R. A. 3340
Martin, R. E. 3267
Martin, T. 118
Martinčič, A. 137
Martino, E. di 3795
Márton, A. F. 3759
Marton, K. 2469
Mártonfalvi, P. 3194
Martynenko, V. A. 2184
Martynenko, V. I. 868
Martynov, A. N. 412
Martynovich, N. N. 2703
Marwaha, R. S. 2707
Mary, T. N. 1843
Mar'yushkina, V. Ya. 3708
Masarovičová, E. 530, 534
Mascianica, M. P. 285
Mashhadi, H. 1900
Mashhadi, H. R. 1747
Mashkin, I. F. 888
Masiunas, J. B. 2888
Massion, C. L. 1104
Mastalerz, P. 2907-2908
Mastrocola, M. A. 1772
Masunias, J. B. 3545
Mata, O. A. 946
Mate, S. 602
Mate, S. 1567
Mathews, P. R. 354, 663
Mathur, G. 2776
Matkovics, B. 2291, 2295
Matlack, G. R. 2207
Matoh, T. 2795
Matolcsy, G. 3765
Matringe, M. 812, 2896
Matsumura, F. 1521
Matsunaga, M. 3602
Matsunaka, S. 2328, 2330
Matsuo, K. 3296
Matsuya, K. 2274
Mattice, J. D. 1931, 1952
Matua, R. T. 689
Maturin, D. N. 532
Matveev, Yu. M. 826
Mau, R. F. L. 2226
Maughan, O. E. 3270
Mauvais, C. J. 219
Maxwell, B. D. 3615
May, J. W. 236, 1689
May, M. J. 46-47, 1617
May, R. M. 3350
Mayasich, J. M. 1901
Mayes, A. J. 3443
Mayes, M. A. 2603
Mayeux, H. S., Jr. 1681, 3780
Mayfield, A. 2565
Maykuhs, F. 49, 2061
Mayland, P. G. 1560, 2966
Mays, W. T. 1451
Mazer, S. J. 1011, 1769
Mazhaev, A. V. 866
Mazni, O. A. 3601
Mazumdar, M. 2661
Mazur, B. 1892
Mazur, T. 3195
Mbaye, D. F. 3481
Mead, F. W. 3080
Medd, R. W. 2525, 2957
Medgyesy, P. 2270
Medina, V. 2554
Meeker, D. 2948
Meeklah, F. A. 1276-1277
Meggitt, W. 2458
Meggitt, W. F. 1008, 2609, 3217
Megh Singh 962
Megia, R. 3064
Meguro, R. 2534
Mehrotra, B. N. 1387
Mehta, O. P. 3223
Meier, B. 2648
Meier, D. J. 1605
Meier, U. 1755
Meijden, E. van der 731
Meijer, L. E. 2498
Meinert, G. 2671
Meisch, M. V. 1497
Meissner, R. 1046
Mejía D., N 2760
Mekonnen, Y. 3275
Mekwatanakarn, P. 3400
Melamed, B. V. 1148
Melekhov, E. I. 538
Melhorança, A. L. 2052
Melichar, L. 3025
Melichar, L. D. 3580
Melichar, M. W. 95, 2741
Mel'nikov, N. N. 536
Mel'nikova, N. I. 2934
Memar, M. H. 2786
Menck, B. H. 1551, 1579, 1631
Mendiola Ubillos, A. 1427
Mendosa, J. 2926
Menéndez, I. 2772
Mengesha, M. H. 2793
Menn, J. J. 3753
Mercado, B. L. 2779
Mercer, K. L. 2806
Mercuri, O. 718
Mercurio, J. C. 3474
Merezhinskiĭ, Yu. G. 800, 2267
Meriggi, P. 3499
Merivani, Y. N. 2370
Merkle, M. G. 937, 2377
Merola, D. 3603
Merrill, L. M. 1860, 2835
Mersie, W. 28, 608
Mesa G., J. 2814
Mesa-García, J. 499, 1070
Mesa García, J. 2647
Mesa, P. 2845
Messersmith, C. G. 931, 988, 1948, 3294, 3725, 3768
Meşter, A. 1189
Metcalfe, C. S. 1730
Metz, L. J. 1891
Metz, R. 361
Mew, T. W. 578
Meyer, B. 1155, 2319
Meyer, C. P. 2502
Meyer, D. J. L. 3289

Meyer, H. 1611
Meyer, R. E. 937, 1752
Meyer, R. J. 912
Meyerdirk, D. E. 3333
Mhehe, G. L. 1079
Michael, J. L. 1334
Michael, O. 3131
Michael, P. W. 1780
Michaelis, H. 2557
Michan, M. M. 1250
Michelson, R. 1686
Michieka, R. W. 3798
Mičieta, K. 1396-1397
Midha, L. K. 3223
Midmore, D. J. 1634
Miesner, H. 2670, 3211
Miguel, L. de 718
Mihajlović, L. 1101
Mijatović, K. 2815
Mikalyunene, V. I. 920
Mikesell, J. 1852
Mikhaĭlov, A. N. 1014
Mikhaĭlova, S. 3571
Miklós, D. 3543
Mikrut, L. 2403
Mikulás, J. 2104
Mikulka, J. 761, 805, 817, 834, 864, 987, 989, 1013, 1133
Mikuška, Z. 2751
Milashivili, T. R. 726
Milashvili, T. R. 2213
Mile, E. 891
Miles, C. J. 1968
Miles, G. E. 3189
Miles, J. 2179
Milevoj, L. 2719
Milijić, S. 2193
Miller, G. C. 2926
Miller, H. 954
Miller, J. H. 1728, 1984
Miller, L. A. 677
Miller, P. 2260
Miller, P. C. H. 2628
Miller, R. 136
Miller, S. D. 881, 1000, 1682, 2359, 2419, 2652, 2657
Miller, S. S. 3023
Millhollon, R. W. 2840
Milne, P. 695
Milne, P. G. 979
Milner, R. J. 1874
Mimaud, J. 3559
Minard, R. D. 2612
Minchin, P. E. H. 576
Mine, A. 2279
Minjas, A. N. 741
Minogue, P. J. 1733, 2442
Miranov, V. B. 1254
Miroshnikov, P. I. 1298
Miroslavov, E. A. 1850
Mirzaev, M. S. 3365, 3369
Misek, A. R. 3036
Mishra, R. R. 3770
Mishra, S. C. 3676
Mishra, S. S. 2363
Misonne, J. F. 1618
Mitamura, T. 56
Mitchell, D. S. 169, 2538
Mitchell, J. K. 2931
Mitchell, O. R. 3189
Mitchell, R. B. 1277
Mitchell, W. C. 2226, 3336
Mitev, D. 2075
Mitich, L. W. 1293, 2080, 2208, 3281
Mitra, K 3670
Mitsui, B. 2327
Mitsutake, K. 231
Mixon, A. C. 3226
Miyahara, M. 2043
Miyake, H. 2485
Mochalkina, K. I. 3769
Mochizuki, D. 117
Mochnacký, S. 746
Mogollón, T. 2320
Mohanasundaram, M. 3344
Mohanty, N. 2218
Mohanty, P. 2218
Moharram, A. M. 2940
Mohta, N. K. 625-626
Moinuddin Ahmed 2521
Moiseenko, A. A. 890
Mokshin, V. S. 2020
Molchanov, L. V. 810
Mølgaard, P. 1399
Molinar, R. H. 3560
Molnár, I. 600
Molnár, J. 1321, 3457
Molyneux, R. J. 2467
Mona, S. 229, 2887
Monaco, P. 3603
Monaco, T. J. 158, 1116, 1688, 1698, 1706, 1950
Mondal, N. G. 3297
Monks, C. D. 1297
Monks, D. W. 1350
Monnier, M. 2544
Montazer-Zouhoor, A. 1901
Montemurro, P. 2810, 3199
Montenegro, R. 1281
Montes, L. 2227
Montgomery, D. P. 2768
Montstvilaĭte, Ya. Yu. 914
Moody, G. J. 1937
Moody, K. 578, 1017, 2044, 2530-2531
Mooney, H. A. 3426
Moons, C. 2304
Moore, B. D. 1437
Moore, J. O. 253-255, 257
Moore, P. D. 3185
Moorhead, D. L. 565
Moorhead, K. K. 2506
Moorman, T. B. 2937
Moosmann, A. 1977
Moraes, J. de D. 1815
Morais, A. R. de 2171
Morales, R. 1296
Morallo-Rejesus, B. 3331
Morán Lemir, A. H. 3075
Moran, V. C. 2855, 2866, 3109-3110
More, B. B. 2618
Moreau, B. 3542
Moreira, E. M. 932
Moreira, I. 2643
Morgan, J. C. 3341
Morgan, R. P. 2468
Morgun, V. V. 2267
Morishita, D. W. 1811
Morrison, I. N. 486
Morrison, J. E., Jr. 3478
Morrow, L. A. 452
Morrow, L. S. 1262-1263
Morse, D. H. 3620
Mortensen, D. A. 1002
Mortensen, K. 2564, 3095, 3691
Mortimer, A. M. 18, 271
Morton, H. L. 1680, 1685, 3284
Moser, E. 3168
Moser, L. E. 3237, 3385
Moshier, L. J. 295
Moss, B. 487
Moss, S. R. 4, 107, 3029
Mostafa, M. T. 2689
Mostaghimi, S. 3162
Mourer, C. R. 1500
Mousdale, D. M. 1143
Mousdale, D. M. A. 1057
Mousseau, M. 3134
Moye, H. A. 1936, 1968
Moyer, D. D. 360
Moynahan, P. M. 715
Muccio, A. Di 1142
Mudge, J. E. 417
Muehlbauer, F. J. 3804
Muhammad Da'u 3576
Muhammad Shafiq 3209
Muhitch, M. J. 3130
Mühlschlegel, F. 1568, 1677
Mukerjee, S. K. 1139
Mukherjee, A. K. 1836
Mukherjee, R. 241
Mukherji, S. 149
Mukhopadhyay, D. K. 461
Mukhopadhyay, S. K. 2454
Muldoon, M. T. 2925
Mulgrew, S. M. 3271
Mullen, R. 650, 1696
Mullen, R. J. 945, 3556
Müller, F. 1907
Müller, H. 1677
Muller, M. W. 968-969
Müller, P. 361
Müller-Schneider, P. 3041
Muller, W. H. 1108
Müller-Wilmes, U. 1824
Mullins, G. P. 2912
Multani, D. S. 2584, 3736
Muminović, S. 2187
Mumma, R. O. 1934
Munger, P. H. 3057
Mungomery, V. E. 619
Munk, H. 3537
Munoz, R. F. 1307, 2435, 3480
Munro, D. B. 1020
Munshi, A. H. 1395
Murai, T. 3398
Murakami, Y. 1925
Murawa, D. 3230
Murdock, E. C. 43, 473, 561, 910, 1411, 3643
Murison, R. D. 2073
Murofushi, N. 1460
Murphy, A. H. 938
Murphy, H. J. 1262-1263
Murphy, K. J. 97, 488
Murphy, T. R. 496, 3043
Murray, D. S. 1239, 2516, 2783, 2806, 3045, 3124-3125, 3518
Murray, J. J. 656
Murray, N. D. 3083
Murray, R. B. 2008
Murray, R. D. H. 793
Murray, R. L. 3258
Murty, Y. S. 1009
Musil, J. 3512
Musina, G. V. 2273
Musselman, L. J. 1061, 2832
Musumeci, M. R. 3160
Mutanal, S. M. 3303
Mutanen, R. 1923
Muzafarov, A. M. 1052
Muzaffar Iqbal 3209
Muzepin, S. K. 2704
Mydlilová, E. 610, 618, 880
Myers, C. 2445, 2447
Myers, J. H. 2867
Myers, R. A. 2509, 2513
Naber, H. 1607
Nadeem, M. Y. 1826
Nag, T. N. 3181
Nagai, R. 1438
Nagano, E. 3719
Nagy, C. 602, 1567
Nagy, E. 602
Nagy, F. 1273
Nair, K. P. M. 1812
Nair, M. S. 1825
Nakagawa, H. 3602
Nakagawa, J. 471
Nakamura, S. 2771
Nakayama, M. 809
Nalewaja, J. D. 517-519, 881, 1000, 1036, 1049, 1195, 2567, 2658, 2944, 2986, 3013
Namken, L. N. 2710
Nanda, K. K. 2828
Nandan Bhattacharyya 461
Nandi, P. C. 1774
Nandihalli, U. B. 2206
Nanobashvili, V. I. 2769
Nara, M. 3296
Narasimha, R. 1930
Narasimhan, D. 1401
Narendra Kulkarni 3327
Nashiki, M. 2534
Naskar, K. 1757
Nasu, Y. 1378, 1465
Natraju, S. P. 2173
Nava R., V. 3717
Navara, J. 530, 534
Navarrete, L. 1837, 3454
Nazrul-Islam, A. K. M. 2797
N'Doye, M. 3481
Neagu, T. 2324
Neal, J. C. 956, 3565
Nearman, L. J. 2663
Neary, D. G. 92, 1735
Nedyalkov, N. 3407
Neilsen, G. H. 72
Nejezchleb, M. 1165
Nekhanov, V. P. 3514
Nel, P. C. 1046, 2376
Nelgen, N. 1554, 1911
Nelles, J. 2581
Nelson, B. 1194
Nelson, D. C. 352
Nelson, G. H. 790
Nelson, J. 2418
Nelson, J. E. 1987
Nelson, L. E. 3742
Nelson, M. R. 1864
Nemchenko, A. I. 895
Németh, I. 756
Nemoto, M. 3312
Nene, Y. L. 3804
Nenov, S. 3407
Nepochatov, A. P. 25
Neser, S. 3089, 3102, 3108
Nesheim, L. 1828
Netto, J. B. D. 2042
Netzley, D. 1080
Netzly, D. H. 1475
Neuberger, B. 2605
Neumann, K. 1392
Neumann, R. W. 3264
Neumann, W. 2312
Neururer, H. 1614, 1652, 1997
Neury, G. 3246
New Zealand Agrichemical Manual, Update 1362
New Zealand Journal of Agriculture 1166, 3417
Newbold, R. A. 1327
Newcomer, D. T. 1243
Newhall, R. L. 299
Newman, R. H. 763
Newman, S. 151
Newmark, P. 2891
Newsome, A. E. 2491
Newsome, J. F. 3234
Newsome, W. H. 1941
Newton, M. 1488, 1684, 1737-1738, 2440, 3306
Nguyen, T. T. 824
Ni, X. M. 178
Nicholls, M. S. 124
Nichols, R. L. 1202, 1229, 3507
Nichols, S. L. 1978
Nickell, L. G. 673
Nickrent, D. L. 1782
Nicoletti, M. 3667
Nielen, M. W. F. 546
Nielsen, B. J. 2224
Nielsen, D. 1756
Niemann, P. 1844, 3637
Niewola, Z. 1942
Niggli, U. 1679
Nikolaeva, N. G. 676
Nikolaeva, O. A. 2095
Nikul'nikov, I. M. 1628
Nilsen, E. T. 132
Nilson, D. J. 2084
Nilson, E. B. 3436
Nilsson, H. 431-433, 3433, 3588-3590, 3593, 3755, 3758
Nishi, K. 1410
Nishikawa, H. 1918
Nishioka, H. 1465
Nishizaki, H. 2165
Nissen, S. J. 3621
Nixon, K. C. 2548
Noble, I. R. 2491
Noble, R. D. 144-145
Nóbrega, L. B. da 2069
Noguchi, K. 1417, 3296, 3299
Nohl-Weiler, C. 1636
Noirfalise, A. 1832-1833
Nolan, C. J. 2596
Nölle, L. 1817
Nomoto, T. 2534
Nord, D. W. 2986
Nord, P. J. 1935
Nordh, M. 292

Norman, A. W. 3039
Norman, J. O. 3033
Norris, D. H. 843
Norris, L. A. 1512, 1952
Norris, R. F. 2351
North, L. H. 2436
North, R. C. 190
Northam, F. E. 1762
Northstrom, T. E. 417
Norton, C. R. 1006
Norton, E. J. 1915
Norton, R. A. 2576
Nosova, L. M. 2540
Nosova, S. M. 905
Nosticzius, A. 2598
Novak, F. S. 1993
Novak, J. T. 2613
Novick, N. J. 241
Noviello, C. 3690
Novikova, I. S. 2286
Novo S., R. 2691
Novoa, N. 1447
Nový, J. 592
Nowierski, R. M. 3710
Nowotny, M. 2336
Nurit, F. 229
Nusser, S. M. 3263
Nuyken, W. 1579
Nuyken, W. O. G. 1551, 1640
Nye, J. C. 1503
Nyman, L. P. 3360
Oates, K. 150
O'Bryan, K. A. 1201
O'Connor, B. P. 3192
O'Connor, J. P. 295
O'Connor, T. M. 3540
Odell, E. A. 1797
O'Donovan, J. T. 3280
Odu, E. A. 133
Oehmichen, J. 2006
Oekle, R. J. 2483
Oettmeier, W. 2276
Ogawa, J. M. 1713
Ogawa, Y. 56
Ogg, A. G., Jr. 438, 3403
Ogierman, L. 1141, 1484
Oginova, I. A. 523
Ognjanović, R. 2194
Oguntimein, B. O. 3416
Ogura, N. 3602
O'Hair, S. K. 2407
Ohkawa, T. 1438
Ohme, J. 1553
Oien, S. 1622
Okamoto, K. 56
O'Keeffe, D. H. 736
O'Kennedy, N. D. 684
Okuda, S. 2535
Okuma, M. 3316
Okuyucu, F. 2343
Oliberius, J. 592, 834
Oliveira, M. A. B. 3641
Oliveira, P. R. P. de 1772
Oliver, L. R. 1235, 1350, 2693, 3121
Olmedo Calleja, J. 1427
Oloffs, P. C. 2313
Olsen, M. M. 1493
Olson, G. L. 3030
Olson, J. K. 3212
Ondruch, Z. 2649
O'Neal, H. P. 832
O'Neal, S. W. 2914
Oota, H. 2473
Opatrná, J. 1373-1374
Opitz, C. 2875
Oplinger, E. S. 2053
Oppen, M. von 3804
Orfanedes, M. S. 3475
Orloski, E. J. 3726
Orlova, I. L. 545
Orłowski, M. 2997
Ormeno N., J. 2678
Ornduff, R. 1790
Oron, G. 2342
Orosz, F. 3748
Orr, G. L. 1898
Orr, J. 650, 1696
Orsi, S. 39
Orson, J. H. 260, 878
Ort, D. R. 1130
Ortega, D. G. 395
Ortiz del Portillo, P. 1650
Orzolek, M. D. 380
Oshio, H. 2255, 3719
Osipov, V. I. 808, 3374
Osmelak, J. A. 3671
Ossom, E. M. 2708
Ostrofsky, W. D. 983
Oswald, A. K. 60, 2074
Oswald, T. H. 2902
Otazú, V. 3347
Othman, N. Y. 3079
Othman, O. 2416
Otoiu, N. 2754
Ottow, J. C. G. 562
Ouyahya, A. 3044
Owen, M. D. K. 2605, 2989
Owen, W. J. 216
Owens, J. M. 2956
Owston, P. W. 697
Owusu, R. K. 1937
Oxlade, E. L. 1057
Oyamada, M. 615, 819, 3358, 3377
Ozaki, M. 822, 1518-1520
Pablico, P. P. 2530
Pabst, R. J. 3256
Pace, C. S. 1445
Pacheco, J. L. 617, 1596
Packiaraj, S. P. 2047
Păcureanu, M. 1076
Padilla, C. 1414
Pageau, D. 3003
Pahuja, S. S. 3269
Pahwa, S. K. 3221
Paidin, P. 3483
Pakrasi, H. B. 1121
Pal, M. 585
Palamarchuk, V. I. 1623
Palaniappan, S. 2619
Pałczyński, J. 3011
Palenzuela, I. 138, 2845
Palenzuela Páez, I. 2537
Pallett, K. E. 795-796, 803, 3718
Pallutt, B. 630
Pal'm, E. V. 1137
Palmer, C. G. 87
Palmer, G. K. 1272
Palmer, G. M. 46
Palmer, M. 170
Palmertree, H. D. 2055
Palu, L. M. 1750
Pan, S. T. 1921, 1927
Pancholi, D. K. 3453
Pančić, S. 2134
Pande, P. C. 150, 2837
Pandey, A. K. 2716
Pandey, R. P. 1388
Pandita, M. L. 2088, 2405, 2728
Pandya, S. M. 3305
Pane, H. 1409
Panetta, D. 3785
Panetta, F. D. 3653-3654
Pannell, D. 3785
Pansani, L. C. 740
Panter, K. E. 1756, 2127, 3034, 3037
Pantone, D. J. 3346
Panwar, R. S. 3278, 3495
Paparozzi, E. T. 3018
Paquet, P. J. 1060
Parađiković, N. 2186
Parasher, V. 447
Paredes, E. 1296
Pareja, M. R. 1356
Parham, B. E. V. 3193
Paris, D. F. 1961
Park, G. J. 3532
Park, J. S. 3077
Parker, C. 1062, 1859, 2355, 2646
Parker, C. E. 204
Parker, P. E. 787
Parmakov, D. 3407
Parmar, P. J. 1388
Parmar, R. P. 3242
Parnell, E. W. 2596
Paromenskaya, L. N. 2051
Parrado, J. L. 1694
Parrish, S. K. 1517
Parry, D. W. 763
Parsells, A. J. 3435
Parsons, I. M. 2712
Pasqualini, S. 3656
Pass, B. C. 2233
Pass, M. A. 993
Passacantilli, P. 3667
Passini, T. 2171-2172, 2974
Pastor, M. 965
Pastucha, Ľ. 1598, 1601
Patanella, J. E. 3739
Patel, J. C. 628
Patel, R. J. 3729
Paterniti, M. B. 466
Paterson, N. W. 2788
Pathak, A. K. 2389
Pathasarathy Rao, P. 3804
Patil, B. M. 3516
Patil, B. N. 3326
Patil, M. P. 328
Patil, S. J. 2173
Patil, V. P. 2388
Patnaik, S. N. 1777
Patrick, K. H. 1981
Pattanshetti, H. V. 2173
Patterson, D. E. 2014
Patterson, D. T. 146, 1002
Patterson, M. G. 2398, 2802, 3186, 3414, 3503, 3757
Paukertová, I. 480
Paul, J. A. 11
Paul, N. D. 1865, 2869
Paul, R. 270
Păunescu, G. 602, 1567
Pavan, M. A. 75
Paven, I. 1289
Pavlov, D. 2076
Pavlová, L. 1370, 1373-1374
Pavlova, L. 1372
Pawlak, J. A. 3217
Pawłowski, F. 1364, 1422, 2656, 3047-3048, 3311
Payne, G. F. 61
Peake, A. A. 2283
Pearlmutter, N. L. 985
Pearson, J. O. 1595
Pearson, S. L. 2393
Peccetti, G. 3309
Peck, J. S. 284
Pecora, P. 198
Pederson, R. L. 719
Pedigo, L. P. 2807
Pedro, L. B. de 1088
Pedroso, B. A. 3485
Peeper, T. F. 1201, 1203, 1523, 1564, 1973, 2662, 3205
Pekker, E. G. 3119
Peláez, D. V. 1343
Pelletier, J. 2086, 3542
Pelsy, F. 2315
Pemberton, R. W. 198, 2861, 3679
Pemberton, W. 1323
Penchev, E. 500
Penescu, A. 602, 1567, 1586, 1603, 1643, 2375, 2754
Pen'kov, L. A. 940
Pěnková, I. 459
Penner, D. 30, 3210
Penny, D. 2496
Penny, P. 2496
Pepper, M. N. 1238
Pepper, T. F. 823
Perecin, D. 740
Peregoy, R. S. 327
Pereira, J. M. 933
Pereira, R. C. 966-969, 973-974, 1004, 1039, 2111-2112
Pereira, W. 992, 2257
Perera, L. A. 307
Peressin, V. A. 740
Pérez Cabrera, M. 2537
Pérez, E. 1429
Pérez, M. 138, 2845
Pérez M., J. L. 2736
Pérez Montesbravo, E. 1359
Pérez, N. 2772
Perina, R. 1534
Pernès, J. 3134
Perrett, S. F. 2626
Perry, C. 695
Perry, I. 3185
Perry, K. M. 3058
Perucci, P. 1124, 1884
Peschken, D. P. 3099
Pešík, J. 2649
Pest Management Society, Canada 854
Pestemer, W. 553
Petcov, S. Ts. 3135
Petersen, B. B. 2942
Petersen, B. H. 3658
Petersen, L. Samsøe 3392
Petersen, P. J. 2063
Peterson, D. E. 2567, 2658, 2944
Peterson, J. L. 1979
Peterson, L. W. 1910
Peterson, M. A. 2390
Peterson, R. 268
Peterson, R. V. 1169
Petit, R. D. 935-936
Petkov, S. Ts. 3135
Petr, F. C. 1822
Petre, M. 2669
Petri, A. 3598
Petrlík, Z. 3578
Petrov, N. 2751
Petrov, P. 3002
Petrov, P. D. 500
Petrov, P. I. 2075
Petty, J. D. 2300
Petzoldt, K. 926, 2034
Pfeiffer, D. G. 3248
Pfister, G. 1522, 2087
Pfister, J. A. 120
Pflugmacher, J. 566
Phatak, S. C. 65, 1454-1455, 2251
Phillips, D. 1016
Phillips, J. R. 773, 3335
Phillips, M. J. 3261
Phillips, N. H., Sr. 939
Piana, Z. 1663, 1830
Piano, E. 3534-3535
Piccoli, F. 1831
Pienkowski, R. L. 3093
Pieters, R. 1072, 3056, 3664
Pieterse, A. H. 421, 728, 1073-1074
Pika, Yu. N. 470, 863
Pike, D. R. 2472
Pikushova, E. A. 895
Pilar Hernández, A. del 184
Pilgram, K. H. 1910
Pillai, P. 287
Pillmoor, J. B. 2880
Pinho, A. F. S. 968-969
Pintilie, C. 3613
Pinto, J. D. 3338
Pinto, J. E. B. P. 3738
Pînzariu, D. 597, 2039
Pînzaru, D. 1567
Pinzón, R. B. 1281
Piper, G. L. 3087
Pirvu, N. 1076
Pita, J. M. 442
Pitelli, R. A. 740, 3059
Pitlo, R. H. 420
Pitra, L. 2752
Plana González, L. 2537
Plana, L. 2845
Plasencia Fraga, J. M. 105
Plavšić-Gojković, N. 2829
Pleshko, L. S. 1146
Plna, L. 138
Plowright, R. C. 3276
Plucknett, D. L. 1186
Plumbe, A. M. 1111
Pocsai, K. 906
Podmayer, S. M. 329
Podoprigora, V. S. 579
Pogoshevskii, L. P. 1146
Pohl, R. W. 2782
Pohlan, J. 622-623, 2819
Poirier, C. 3692
Poirier, S. H. 2292
Pokorný, J. 533
Poliquin, B. 865
Politis, D. J. 3684

Pollard, F. 154
Pollitt, S. 993
Pollock, C. J. 1802
Pölös, A. 1474
Polprasert, C. 3415
Polster, J. 1477
Pomar, M. C. 2577
Pomela, E. M. 1597
Ponder, F., Jr. 2178
Pool, R. M. 675
Pop, I. 602, 1567
Popa, F. 602, 1567, 1604
Popay, A. I. 1283, 1539
Popay, A. J. 1539
Popay, I. 1278
Pope, C. L. 617, 1596
Popescu, A. 602, 1567, 1603, 1643, 2152, 2375, 2754, 2918
Popescu, N. 602
Popkov, V. V. 2060
Popova, I. V. 1048
Popovich, V. V. 895
Porath, D. 2342
Porter, C. A. 221-222, 2885-2886
Porter, G. A. 1262-1263
Porter, J. R. 1174
Portnoĭ, M. M. 408
Porwal, M. K. 3061
Posluszny, U. 1773
Pospíšil, F. 1854
Pothiraj, P. 2048
Potvin, C. 1433
Pounders, C. 652
Povilaĭtis, Yu. V. 911
Powell, W. R. 1954
Power Farming, UK 3404
Pozsgay, J. 629
Pozuelo, J. M. 272, 2593
Prabhaker, N. 3333
Praczyk, T. 3197
Prakash, J. 3221
Prasad, J. S. R. 3660
Prasad, K. 613, 625-626
Pratley, J. E. 2354
Précsényi, I. 600, 629
Preest, D. 1332, 1723
Preest, D. S. 693
Press, M. C. 1059
Previtera, L. 3603
Price, D. 2737
Price, C. E. 991, 2763
Price, S. C. 125
Price, T. P. 2921, 3372
Prichard, T. 1323
Pridey, R. K. 2667
Prifti, M. 2430
Přikryl, K. 2649
Primak, A. P. 1472
Prins, D. J. 2712
Prinsloo, S. M. 3747
Proceedings of the Entomological Society of Manitoba 1095
Prokopenko, O. I. 2318
Pronina, N. B. 232
Protsenko, A. O. 1254
Prouty, R. 91
Pruneddu, F. 3534-3535
Prusakova, L. D. 513
Prusty, J. C. 585
Przeździecki, Z. 3230
Przybylski, Z. 2297
Pudeřko, J. 2040
Pulević, V. 2151
Pullaiah, T. 1389
Pullen, K. R. 3104
Pulver, E. 3640
Pundir, R. P. S. 3804
Punte, H. 1406
Punyasiri, P. A. N. 2936
Puppi, A. 2291
Purcell, A. H. 1083
Purushothaman, D. 2048
Pusceddu, S. 3534-3535
Pushpamma, P. 3804
Putnam, A. R. 161, 1041, 1043, 1110, 1182, 2571, 2730, 3649
Putwain, P. D. 18, 1122, 2269
Putz, F. E. 3266
Puy, D. L. Van Der 1670
Puy, D. L. van der 2365
Puzikov, L. S. 1813
Pye, B. 2632
Pykhova, V. T. 607
Pyzhikova, L. V. 2928
Qadir, S. A. 2489
Qasem, J. R. 3307
Quensen, J. F., III 1521
Quick, M. P. 2468
Quick, W. A. 717, 1763
Quimby, P. C., Jr. 252, 1098, 2839
Quinn, P. J. 2626
Quintero F., E. 130
Qureshi, R. H. 1421, 2796
Raab, M. M. 1883
Rabby, J. C. 2743
Raby, B. H. 2804
Radics, L. 1034
Radosevich, S. R. 2519
Radu-Negru, A. 1289
Rădulescu, V. 1585
Radwan, H. M. 3617
Radzivil, V. Kh. 2703
Raffat, P. M. 907
Ragab, M. T. H. 828
Raghavan Charudattan 2247
Raghavan, V. 1181
Raghvani, B. R. 628
Rahman, A. 1218, 1279, 1285, 1415, 2035
Rahman, R. 2241
Rai, J. P. N. 1839, 3648
Raine, J. 772
Rainreo, H. P. 2698
Rajagopal, V. 2933
Rajaram, S. 2975
Rajendra Singh 2727
Rajendrudu, G. 3660
Rajput, M. T. M. 2225
Raju, M. V. S. 2471
Raju, R. A. 321
Raju, V. S. 1838
Rale, V. B. 1535
Ralphs, M. H. 120, 439, 1282, 2127
Ram, H. Y. M. 2776
Rama Das, V. S. 3660
Rama Prasad, J. S. 3660
Ramaiah, N. V. 3789
Ramakrishnan, P. S. 3437
Ramalho, M. A. P. 2172
Ramamoorthy, K. 2677
Ramcharitar, S. 3627
Ramiah, S. 2047
Ramirez, A. D. 358
Ramkrishna, C. S. 3789
Ramos-Cormenzana, A. 2938
Rana, D. S. 1561
Randhawa, A. S. 3736
Randhawa, K. S. 2384, 2431, 3557
Randles, J. W. 188
Rao, A. R. 2027
Rao, A. S. 2456
Rao, G. N. 1840
Rao, G. R. 460, 2159
Rao, K. E. P. 2793
Rao, K. N. 2456
Rao, M. 3240
Rao, M. U. 2717
Rao, P. 3222
Rao, P. N. 1842
Rao, R. R. 1386
Rao, R. S. 1532
Rao, T. M. V. 2933
Rapparini, G. 1219, 1225, 1248-1249, 1255-1256, 1258, 1575, 3498, 3529, 3575
Rapusas, H. R. 1089, 3078
Rashid, A. 2582
Rasmussen, V. P. 299
Rasocha, V. 3512
Rassoul, M. S. Abdul- 3079
Rastogi, S. K. 2379
Ratcliff, R. L. 1564
Rathi, S. S. 3495
Rathmann, D. P. 2983
Rathore, H. S. 1922
Ratterman, D. M. 3732
Rauber, R. 3611
Raut, V. M. 2388
Rauwald, H. W. 3663
Ravanel, P. 229, 2591, 2887
Ray, B. 628, 2682, 2690
Ray, J. W. 1346
Ray, T. B. 219
Raynal, D. J. 2501
Razzaque, Q. M. A. 3078
Razzhivin, V. Yu. 2185
Read, B. J. 884
Read, M. A. 5, 584, 590
Reade, J. B. 2720
Reagan, T. E. 159, 189, 2237
Ream, J. E. 222
Rebeiz, C. A. 1901
Rebeiz, C. C. 1901
Rebuffo, M. 3451
Reddy, A. R. 1857
Reddy, B. V. N. 1842
Reddy, K. R. 2504, 2506, 2799
Reddy, M. N. 321
Reddy, M. V. 3804
Reddy, P. S. 1840
Reddy, S. N. 3789
Reddy, T. K. R. 2617
Redfern, M. 3098
Reed, J. P. 2616
Reed, W. 3804
Reeders, H. H. 421
Rees, N. E. 198
Rees, T. ap 3661
Reghunath, P. 1606
Regis, R. R. 1897
Řeháková, V. 3144
Rehm, S. 280
Reichard, D. L. 2326, 3169
Reichelderfer, K. 3081
Reid, M. S. 2833
Reid, S. 3734
Rein, K. 2833
Reiners, S. 248, 386
Reinhardt, C. F. 2376
Reissig, W. H. 578
Reith, M. 2889
Reitz, W. L. 380
Rejesus, B. Morallo- 3331
Relova, R. 76, 2819
Remiš, D. 533
Renga, J. M. 2904
Renger, G. 228, 3322
Ren'kov, L. A. 905
Renner, K. A. 2609
Rensen, J. J. S. van 226
Resh, V. H. 698, 766-767
Reshi, Z. 750
Reszel, R. 3644
Retzinger, E. J. 1245-1246
Retzinger, E. J., Jr. 1237, 1240
Retzinger, J. E. 1197
Reyes, C. C. 1546
Reynolds, D. A. 2984, 3766-3767
Reynolds, D. B. 3125
Reynolds, P. E. 86, 90, 1739
Reynolds, T. L. 2261, 3730
Reznik, S. Ya. 3708
Rhodes, G. N., Jr. 1576
Rice, E. L. 1042
Richard, J. J. 1499, 1509
Richard, P. A. 1246
Richardon, W. G. 2011
Richards, J. H. 1853, 3605
Richards, M. C. 356, 362
Richards, R. P. 3387
Richardson, B. 1346
Richardson, B. J. 2541
Richardson, J. M. 452
Richardson, W. G. 8, 60, 2009-2010, 2012, 2074
Rick, S. K. 1511, 2982
Rickelt, L. F. 2224
Ricker, D. W. 3092
Ricroch, A. 3134
Ridge, P. E. 2599
Ridings, W. H. 789
Rieck, C. E. 1117
Riedell, W. E. 3140
Riego, D. C. 111, 2762
Rieley, C. E. 284
Riemer, D. N. 744
Riffart, K. 1651, 1674
Riggleman, J. D. 842
Riggs, R. D. 2693
Righi, G. 3667
Rimarenko, L. V. 206, 2903
Riopel, J. L. 1081
Ríos, A. 1563, 1671, 3231, 3451, 3469, 3497, 3526
Ripke, F. O. 2334
Risch, S. J. 1766
Ritchie, W. R. 2427
Ritter, R. L. 313-314
Ritty, P. M. 95, 2741, 2744
Rivera, J. 3250
Riveros, G. 3642
Rizk, A. M. 3617
Rizk, T. Y. 2689
Rizza, A. 198
Rizzi, V. 3204
Roberts, B. L. 1197
Roberts, E. H. 1760
Roberts, H. A. 122, 448, 477, 3042
Roberts, W. L. 1991
Robertson, D. 2897
Robertson, H. G. 2872
Robinson, D. F. 134
Robinson, D. W. 684
Robinson, G. R. 2123
Robinson, G. W. 416
Robinson, P. 954
Robinson, W. 2102
Robotti, K. M. 1944
Robson, R. T. 1942
Robson, T. O. 423
Roca, J. 1634
Rocca, F. La 39, 1251
Rochester, D. E. 3370
Rodella, R. A. 1099
Roder, W. 737-738, 3237
Rodrigues, B. N. 2094
Rodrigues, J. D. 1099
Rodríguez Bozán, J. I. 130-131
Rodríguez, J. 2772
Rodríguez, N. E. 2698
Rodríguez Pascual, C. 554
Roelofs, J. G. M. 1799
Roeth, F. 2761
Roeth, F. W. 1508, 2615, 2923, 3616
Roger, D. 2397
Rogers, C. B. 548, 2016
Rogers, J. N. 1308
Rogers, J. N., III 1701
Rogers, R. B. 833
Rogers, R. L. 1237, 1247
Roggenbuck, F. C. 3210
Rognon, J. 2392, 2410
Rojas, G. 1214
Rola, H. 1216, 2167, 3203
Rola, J. 286, 2401
Rolfe, G. L. 80, 82-83
Rollins, R. C. 2790
Rolston, M. P. 1661, 2078
Romanova, L. S. 2488
Romanowski, H. P. 1866
Romaşcanu, O. 597
Romero, F. 3291
Room, P. M. 511, 2873, 3701, 3703
Room Singh 2068
Roorda, F. A. 1073
Roper, E. M. 1950
Roper-Lindsay, J. 1381
Rosa, E. de la 3288
Rose, J. L. 619
Rose, P. W. 8
Rose, R. 3371
Rosemond, J. M. 1711, 2764, 3787
Rosenberg, C. 3164
Rosenberg, U. 849
Rosencrance, A. B. 1502
Rosenthal, S. S. 3712
Rosh, D. 324
Rosley Abdullah 3709

Roslycky, E. B. 1153
Rosnovskiĭ, N. G. 474
Rosolem, C. A. 471, 1250
Ross, M. A. 1347, 2914
Ross, S. L. 488
Rossa, R. A. La 2272
Rossberg, R. 26
Rosser, S. W. 2879
Rossi, A. 1871
Rossman, E. C. 3210
Rosso, F. 3499
Roth-Bejerano, N. 2878
Roth, L. O. 1164
Roth, R. 1192
Röttele, M. 1583
Rotteveel, A. J. W. 1607
Rouanet, G. 3803
Rouchaud, J. 2304
Rout, A. F. 742
Rovenská, J. 3376
Rovira, A. D. 1193
Rowan, K. S. 2163
Roy, G. P. 1388
Roy, J. 463
Rozema, J. 1406
Rozier, J. P. 672
Rubin, B. 1118, 1909, 3131, 3500
Rubin, B. *et al.* 922
Ruckendorfer, H. 543
Rudenko, N. E. 1160
Ruedell, J. 620
Ruegg, E. F. 3160
Ruesink, W. G. 3345
Ruiz Bellón, M. 2939
Ruiz-Berraquero, F. 2938
Ruíz, T. E. 1414
Rumney, V. 632-633, 646, 649, 654, 657
Rupel, F. 2911
Rupela, O. P. 3804
Rusanovschi, G. 597
Rusch, M. C. 1889
Rushing, D. W. 2805
Rusness, D. G. 1127, 2253, 3393
Russ, O. G. 295, 2664, 2987
Russell, A. E. 1002
Russell, A. J. 1660
Russo, L. J. 1668, 1709
Ruth, J. M. 1505, 1929
Rutherford, A. W. 3381
Rutherford, G. 1348
Rutz, H. W. 2337
Ryan, F. J. 2480
Ryazanova, A. V. 825
Rybka, V. S. 1213
Ryerson, D. K. 1559
Ryzhkov, N. G. 2079
Saavedra, M. 965
Sabadie, J. 1152
Sabat, S. C. 2218
Sabbatini, M. R. 418
Sabol, B. M. 2505
Sacramento, C. K. 973-974
Saeed, S. A. 2976
Sagar, G. R. 516, 2589
Sage, R. D. 1727
Saghin, G. 2064
Saghir, A. R. 1064, 1690
Saha, L. C. 758
Sahai, A. 2551-2552
Sahai, R. 2822
Sahota, T. S. 2818
Saini, H. S. 126, 2876, 3286-3287
Saito, T. 117, 2771
Sajdak, R. L. 2444
Sajjapongse, A. 2395
Saka, H. 3132
Sakai, H. 2535
Sakai, T. 1918
Sakata, G. 809, 1482
Sakharov, V. D. 888
Sakodynskiĭ, K. I. 542
Sakurai, A. 1460
Salabarria Fernandez, D. 3631
Saladini, J. L. 1558
Salakhova, G. B. 2543
Salas, M. L. 872
Säle, M. 2916
Salembier, J. F. 1618-1619
Salera, E. 1270
Salim, M. 2796
Salin, M. L. 1123
Salisbury, F. B. 792
Saliwanchik, R. 841
Salomão, T. A. 482
Salto, T. 140
Sályi, G. 3598
Samadi, A. 1693
Samar Singh 2379
Samarakoon, A. B. 3321
Šamota, D. 2238
Samples, T. J. 2765
Sampson, M. A. 2231
Samsøe-Petersen, L. 3392
Samuel, A. M. 591
Samunder Singh 3269
Sanborn, S. M. 2745
Sanchez, M. J. 1837
Sánchez, R. A. 718, 2532
Sanda, V. 2152
Sandberg, C. L. 1240, 3479
Sander, K. W. 2329, 3724
Sanders, D. R., Sr. 3700
Sanders, E. F. 3739
Sanders, G. E. 795-796, 803, 3718
Sanders, P. 1285, 1415
Sanders, P. F. 3397
Sandhu, A. S. 2068
Sandhu, G. R. 1421, 2796
Sandhu, K. S. 1582, 2384, 2431, 3557, 3591
Sandmann, G. 1131, 2274
Sandrey, R. A. 1530
Sands, D. C. 196
Sands, D. P. A. 3701-3702
Sane, P. V. 3381
Sangar, R. B. S. 2555
Sankaran, S. 627
Sankaran, T. 3088
San'ko, N. F. 1134
Sankyo Company Ltd. 2905
Sanok, W. 674
Santana, A. C. 1815
Santillo, D. J. 1959
Santos, J. A. C. 2033
Sanwal, G. G. 187
Sapru, B. L. 750
Saraf, C. S. 2711
Sarawak, Ministry of Agriculture and Community Development 276
Sarazin, M. J. 3675
Sargent, J. A. 779
Šarić, T. 2017
Sarkar, P. A. 2682
Sarkar, R. K. 149
Sarker, A. R. 3301
Sarma, K. S. 1056
Sarma, P. K. S. 3676
Sarma, P. N. 1930
Sarmah, S. C. 2389
Sarno, R. 2413
Sarosiek, J. 426, 733
Sarpe, N. 602
Sarpe, N. 1189, 1567, 1586, 1603-1604, 1643, 2375, 2737, 2754
Sasadhar Jana 2553
Sasaki, A. 541
Sasidharan, N. K. 1825
Sastroutomo, S. S. 972, 1032, 3031, 3071
Satarov, V. A. 2057
Sato, K. 2534
Sato, N. 2280
Sato, R. 3719
Sato, T. 3602
Sauerborn, J. 1075, 2533
Saunder, D. 568
Saunders, A. E. 1279-1280
Saunders, E. S. 2624
Sautter, C. 1476
Savchenko, A. P. 867
Saville, G. W. 1335
Savva, A. P. 3744
Sawada, M. 2425
Sawhney, N. 2217
Sawhney, R. 717, 1763
Sawhney, S. 2217
Saxena, D. B. 745
Saxena, M. C. 1075, 3804
Say, A. M. 1381
Scalla, R. 812, 2569-2570, 2896
Scanlan, J. C. 2724
Scarponi, L. 1124, 1884
Schaefer, K. P. 1358
Schamber, G. J. 3036
Scharf, P. 1462
Scharpf, R. F. 185, 1446
Scheepens, P. C. 1872
Schehl, S. E. 2712
Schgel, S. 1912
Schiele, S. 483
Schildbach, R. 882
Schiller, R. 1568, 1642
Schilling, R. 815
Schippers, P. 1067
Schlesinger, R. C. 3259
Schlesselman, J. T. 1319
Schlotter, P. 1552, 1641, 1649, 1657
Schmid, W. E. 3140
Schmidt, A. 1902
Schmidt, D. K. 2983
Schmidt, H. 3150
Schmidt, R. R. 1821
Schmidt, U. 1708
Schmierer, J. 2080
Schmitt, D. P. 1467, 3224
Schmitt, R. 2774
Schöber, B. 1635
Schoen, S. R. 1500, 1962
Scholz, M. F. 75
Schönfeld, M. 3131
Schönherr, J. 1470
Schooley, J. K. 768-770
Schoonbee, H. J. 3585
Schotz, M. 3702
Schoubroeck, M. E. P. van 421
Schreiber, M. M. 2639, 3189, 3501
Schreiber, U. 3322
Schreyer, A. 1552, 1641
Schroeder, D. 2868
Schroeder, L. L. 42
Schroll, R. E. 2639
Schubiger, F. 1877
Schubiger, F. X. 1102, 3693
Schuler, M. D. 714
Schultz, G. 2277
Schulz, H. 1678
Schulze-Siebert, D. 2277
Schumann, A. W. 1212
Schuurkes, J. A. A. R. 1799
Schwartz, D. P. 3270
Schwarzová, T. 1383-1384
Schweizer, E. E. 887, 1589
Sciarappa, W. J. 285
Scifres, C. J. 3540
Scofield, R. 1491
Scoggan, A. C. 1571
Scopel, A. L. 2532
Scorer, D. J. 11
Scoresby, J. R. 567
Scott, D. R. 193
Scott, J. K. 3715
Scott, R. 3182-3183
Scott, R. R. 1875
Scragg, E. B. 3608
Scranton, J. K. 3372
Scribailo, R. W. 1773, 2214
Scruggs, J. W. 1307
Scurtu, E. 597, 602, 1567
Sears, W. E. 935-936
Sebastian, S. A. 1895
Sebök, P. M. de 1189
Sechnyak, L. K. 470, 863
Šeda, V. 1440
Sedlar, L. 1102, 1457, 3681, 3683, 3693
Seest, E. P. 791
Segărceanu, O. 602, 1567
Seiber, J. N. 1541, 1939, 1946, 1965, 2311, 2915, 3389, 3397
Seidenschwarz, F. 2527
Seidlová, F. 1371-1372, 1374
Seifert, J. R. 2450
Seiler, W. 2507
Seipp, D. 3021
Seither, R. L. 549
Sekizawa, Y. 220, 233
Selim, S. A. 2914
Selley, A. P. 10
Selvaraj, C. J. 3476, 3481
Semenov, V. A. 810
Semenov, V. D. 877
Semenova, A. B. 476
Sen, A. K. 3297
Senanayake, A. H. S. 2268
Senesac, A. 390, 674, 956
Senesac, A. F. 66, 360, 648
Senin, N. N. 540
Senior, D. 375
Senthong, C. 902
Seo, S. 3539
Sepaskhah, A. R. 1693
Serbănescu, E. 266
Serditov, N. P. 2154
Serdy, F. S. 1989
Serebrenikov, V. I. 2079
Seredina, L. I. 2097
Sergienko, V. G. 2144
Seth, J. 2676
Seto, H. 2561
Seven, D. J. 1527
Severeid, R. L. 550
Sghir, A. R. 2223
Shaban, S. A. 3496, 3523
Shabes, L. K. 2157
Shad, R. A. 1, 325, 2049
Shafer, W. E. 1470
Shagarov, A. M. 934
Shagurina, T. L. 528, 798
Shah, D. M. 515, 3370
Shah, N. 1059
Shahid Shaukat, S. 2520
Shahida Khalid 1
Shalaby, L. M. 1886, 1924
Shanahan, J. F. 319
Shaner, D. L. 3130, 3746
Shanholtz, V. O. 3162
Shanmugasundaram, S. 2641
Shannon, L. J. 2600
Shanthaveerabhadraiah, S. M. 328
Shapoval, V. A. 2015
Sharanappa 3304
Shardakov, B. K. 2438
Sharif, H. 3601
Sharma, J. P. 1379, 2971
Sharma, K. N. 1561
Sharma, M. P. 458
Sharma, P. B. 33
Sharma, R. K. 1582, 2453
Sharma, R. S. 2680
Sharma, S. 187
Sharma, S. K. 3736
Sharp, J. K. 1944
Sharp, N. A. 1163, 2625
Sharp, T. C. 1724
Sharpe, C. J. 1335
Shasha, B. S. 3501
Shashkov, I. G. 2438
Shäufele, W. R. 1612
Shavgulidze, M. M. 2769
Shaw, D. R. 823, 1973, 2055, 2695
Shaw, R. J. 441
Shchurok, G. V. 3022
Shea, P. H. 557
Shea, P. J. 2606, 2942, 3018
Sheets, T. J. 1149, 1467, 1950, 3772
Sheffield, E. 2824, 3277
Shekhawat, S. 3181
Sheleg, Z. I. 3367
Shelke, D. K. 752, 898, 2409
Shelton, A. M. 190
Shemetov, V. E. 1298
Shenaut, D. 2445
Shenoi, M. M. 2718
Shepherd, B. 2358
Shepherd, H. E. 1229, 2991
Sheppard, J. S. 2723
Shermankin, S. V. 2267
Sherrick, S. L. 1114-1115

Shestakov, V. G. 826, 3399, 3769
Shibamoto, T. 1957
Shilling, D. G. 204, 366-367
Shimizu, M. 2108
Shimizu, R. 231
Shin, Y. H. 3386
Shinde, D. A. 157
Shinde, N. G. 2618
Shinde, V. K. 3327
Shindrova, P. 500, 3323
Shireman, J. 2756
Shivanna, K. R. 2551-2552
Shivappa Shetty, K. 3401
Shivaprakash, M. K. 3401
Shkhagumov, Kh. K. 941
Shoaf, A. R. 537
Shober, A. E. 1913
Shodmanov, M. 923
Shokh, N. A. 2036
Shore, F. L. 1921, 1927
Short, D. L. 2610
Shorthouse, J. D. 2250
Shoyakubov, R. Sh. 1052
Shrefler, J. W. 899
Shribbs, J. M. 158, 1340
Shrivastava, R. K. 194
Shtirbu, V. I. 889
Shubina, L. V. 2847
Shultz, J. E. 2084
Shurovenkov, B. G. 1084
Shustrov, V. S. 1920, 2913
Shutkina, A. T. 1146
Shvartau, V. V. 800
Shvets, D. G. 1257
Siciński, J. T. 2191
Sicupira, P. R. 1004
Siddeswaran, K. 3067
Siddiq, M. A. A. 750
Siddiqi, M. R. 2240
Siddiqi, Z. A. 2240
Sidorskiĭ, A. G. 2156
Sieber, K. 3149
Siebers, J. 1949
Sieczka, J. B. 359-360, 648
Siegel, B. Z. 2496
Siegel, S. M. 2496
Siewela, A. A. 166
Sikka, B. 3415
Šilješ, I. 2338
Siltanen, H. 1923, 3164
Silva, D. L. R. de 1434
Silva, I. 1039
Silva, J. B. 2041
Silva, J. B. da 2171, 2675, 2974
Silva, J. F. da 3008
Silva, J. J. M. 2675
Silva, M. F. 1680
Silva, M. T. B. da 620
Silva, N. G. da 3008
Silva, P. H. da 974
Silva P., J. G. 2760
Silva, R. J. M. 1815
Silva, W. S. 967
Silveira, E. J. 1945, 1955
Silveira, G. M. da 1716-1717, 1980
Silveira Júnior, P. 345
Šimek, J. 2406, 3512
Simmons, D. M. 1024
Simmons, R. C. 2332
Simojoki, P. 3164
Simola, L. K. 1368
Simon, S. L. 1444
Simonchik, S. K. 308, 1487
Simonov, V. M. 2096
Sims, B. D. 1350
Sims, G. 3225
Sims, G. R. 3505
Simundsson, E. D. 1163, 2625
Sinclair, J. B. 624, 908, 2696
Sindel, B. M. 1795
Singh, A. 2711, 3254
Singh, A. K. 2682
Singh, B. 2683
Singh, C. 3558
Singh, C. M. 721
Singh, D. 2384
Singh, D. P. 1019
Singh, D. V. 3254
Singh, H. P. 2681
Singh, K. 3147
Singh, K. B. 3804
Singh, K. N. 2679
Singh, M. 1324, 3120, 3254
Singh, M. P. 3063
Singh, O. S. 447
Singh, P. K. 1019
Singh, R. A. 2555
Singh, R. D. 1172, 2682
Singh, S. 1379, 1394
Singh, S. B. 2099
Singh, S. J. 2363
Singh, S. N. 616
Singh, S. P. 425, 616, 2099, 2727, 3494
Singh, T. 2423
Singh, T. N. 2681
Singh, U. 3804
Singh, V. 2149
Sinha, A. P. 2727
Sinha, R. 2716
Sinha, S. K. 3804
Sinhaseni, P. 2294
Sinitskaya, N. F. 890
Šinský, T. 1598, 1601
Šinžar, B. 2203-2204
Sîrbu, M. 597
Sirlibaev, T. S. 364
Sirois, D. 1984
Sisson, D. V. 3034
Sistachs, M. 2457
Sithanantham, S. 3804
Sivasithamparam, K. 3400
Siwundla, N. 1793
Ska, B. 422
Skender, A. 2164, 2338, 2751-2752
Skidmore, A. M. 11
Skinner, S. P. 403
Skipper, H. D. 43, 561
Skliar, M. I. 3039
Skoglund, J. H. 3776
Skousen, J. G. 2083
Skroch, W. A. 158, 1275, 1340, 1729
Skrzypczak, G. A. 517-519
Skulberg, O. M. 3069
Skulberg, R. 3069
Slabink, E. 2577
Slack, C. H. 1602, 2668
Slater, A. E. 665
Slavík, B. 491, 749
Slay, J. M. 3257
Slife, E. W. 214
Slife, F. W. 436, 1113, 1746, 2665
Slinkard, A. E. 3804
Slobodyanik, V. K. 1625
Slonovschi, V. 1567, 2039, 2189
Ślusarski, C. 3015, 3157
Sly, J. M. A. 571
Smart, C. C. 2595
Smart, G. C., Jr. 2848
Smart, R. A. 2127
Smetanin, A. P. 3731
Šmirous, P. 2383
Smith, A. A. 1765
Smith, A. E. 1151, 2256
Smith, A. F. 1882
Smith, B. 3250
Smith, B. J. 3740
Smith, D. 3255
Smith, D. W. 1331, 2117
Smith, E. A. 1058
Smith, H. 583, 3318
Smith, H. R. 2695
Smith, J. 674
Smith, J. A. 2613
Smith, L. L., Jr. 1915
Smith, L. M. 2300
Smith, N. J. H. 1186
Smith, P. G. 19
Smith, P. M. 2791
Smith, R. A. 3035
Smith, R. D. 544
Smith, R. G. 2911
Smith, R. J., Jr. 326, 780, 2382, 2856, 3492, 3735
Smith, S. 2316
Smits, A. J. M. 464
Smits, N. 3647
Smoczyńska, A. 3195
Smoliak, S. 3651
Smol'yaninov, G. A. 540
Snaydon, R. W. 155, 475
Snel, M. 1552, 1641, 1649, 1657
Sneyd, J. 926
Sniatalowa, Z. Zwolinska- 2900
Snipes, C. E. 2055, 2391, 2695, 2977, 3488-3489
Snook, D. L. 1933
Snow, A. A. 1011
Sobhian, R. 2565
Soder, M. 2774
Sodhi, J. S. 1561
Soenarjo, E. 1450
Sofowora, A. 3416
Solie, J. B. 1523, 3205
Soll, H. J. 2276
Solntsev, M. K. 528, 798
Solomakha, T. D. 2529
Solomakha, V. A. 2183, 2529
Soltis, D. E. 1786, 3050
Solymosi, P. 3597, 3632
Somerville, C. R. 1892
Somich, C. J. 2925
Sommers, B. K. 2987
Somody, C. 2660
Somody, C. N. 1573
Šomšáková, M. 2275
Song, L. J. 3076
Sonnier, E. A. 899
Sonntag, M. 1477
Soria, L. L. 1418
Soriano, A. 3235
Sorokin, O. D. 3119
Sorokowski, R. 413
Sosebee, R. E. 1749
Sotnikov, V. A. 862
Součková, D. 1370, 1374
Soufi, Z. 456
Soulas, G. 2614
South, D. B. 81
Souza, C. M. de M. 933
Souza Machado 3136
Souza, P. R. de 3639
Souza, R. M. de 55
Sovová, M. 1440
Soyer, J. P. 3572
Spain, J. M. 933
Sparacino, A. C. 1220, 1226, 2437
Spence, L. 3128
Spencer, D. F. 450, 453, 732, 2480, 2784
Spencer, G. F. 791
Spencer-Jones, D. 1380
Spencer-Jones, D. H. 424
Spencer, M. S. 126, 2876, 3286-3287
Spencer, N. R. 2864, 3088
Spencer, W. 734, 1855
Spencer, W. F. 1964
Spiers, J. M. 1703
Spiridon, G. 2918
Spiridonov, Yu. Ya. 826, 2928, 3399, 3769
Spittler, T. D. 1501, 1933
Spitzmueller, J. M. 2981
Spivak, L. Sh. 2062
Spjut, R. W. 843
Spokas, L. A. 955
Špoljarić, J. 2198
Spooner, D. M. 1794
Spurná, V. 1440
Spyhalski, E. J. 338, 1229, 2991
Squier, S. A. 1858
Srinivasan, G. 2048
Srivastava, M. P. 3329
Staal, M. 3052
Stables, T. B. 417
Staden, J. van 2476, 2780
Stafford, L. E. 224
Stahevitch, A. E. 3082
Stahl, E. 2568
Stahlman, P. W. 1591
Stair, E. L. 118
Stajčić, M. 2758
Stall, W. M. 2407
Stalter, R. 1365
Stamm, E. J. 3659
Stanković, A. 2753
Stannard, M. 2418
Stansell, J. R., Jr. 3054
Stansfield, J. 487
Stanton, M. L. 1011, 1769
Stapleton, J. J. 2563
Starikov, V. A. 371, 1667
Stark, J. C. 205, 1905
Starr, R. K. 68
Stasieczek, Z. 3151
Staska, K. J. 1560, 2966
Stavrova, N. I. 2540
Stearns, S. M. 1954
Steen, E. 1771
Steen, W. C. 1961
Stefanakē-Nikēforakē, M. 3626
Stefanović, M. 793
Stehling, S. J. 3490
Steindl, L. 3599
Steiner, I. 1486
Steinmetz, J. R. 1935
Stepanov, A. F. 2079
Stephens, R. J. 23
Sterling, T. D. 1498, 3394
Sterling, T. M. 3649
Sterrett, J. P. 3274
Stevens, G. A. 2811
Stevens, K. L. 1109, 2466
Stevens, T. S. 2282
Stevens, W. E. 3520
Stevenson, D. S. 72
Stević, I. 2751-2752
Steward, K. K. 494, 1162
Stewart, G. R. 1058-1059
Stewart, R. M. 3700
Stewart, W. 3473
Stidham, M. A. 3130
Stiefvater, M. 3241
Stiegler, J. H. 1203
Stierle, A. C. 2854
Stiles, D. D. A. 828
Stinner, R. E. 3772
Stivison, L. 1709
Stoddard, P. J. 1168
Stoddart, G. B. 3464
Stoenescu, F. M. 1076
Stoica, I. 2918
Stoimenova, I. 2174, 2374
Stoller, E. W. 2139, 2509, 2513
Stoltenberg, D. E. 434
Stone, J. R. 2712
Storch, R. H. 351
Story, J. M. 3625, 3677, 3710
Stougaard, R. N. 2606
Stoutamire, D. W. 1945, 1955
Stowe, A. E. 651
Stoyer, T. L. 783
Strain, G. J. 1506
Strange, M. L. 3567
Straus, N. A. 2889
Straw, N. A. 3090
Street, J. E. 2977, 3488-3489, 3757
Streicher, D. 2325
Strekachinskaya, L. S. 1146
Strekozov, B. P. 245
Strembelev, V. I. 831, 2095
Stryckers, J. 13-15, 20-21, 24, 29, 38, 63, 274, 281, 348, 350, 353, 363, 376, 379, 383-385, 387-388, 392, 404-405, 407, 495, 1620
Stuart, B. L. 147, 1407
Stuart, L. D. 116
Stubbendieck, J. L. 3237
Stubblefield, R. E. 1749
Stucky, J. 1793
Stupnicka-Rodzynkiewicz, E. 2182
Stys, Z. 3578
Suardi, D. 1409
Subba Rao, K. V. 3804
Subramaniam, V. 847
Subramanian, S. 3067
Šubrtová, D. 3144

Sudhakar, S. 1532
Suditu, P. 2324
Suetsugu, K. 3348
Suffness, M. 843
Sukarji, R. 970
Sukolapong, W. 2391
Sullivan, G. A. 2881, 3224
Sultan Ahmed 2800
Sultanov, A. S. 1480, 3365-3366, 3369
Sulzberger, E. W 2641
Sumaryono 1018
Summy, K. R. 2710
Sumner, D. R. 2331
Suparta, L. 1032
Supkoff, D. 2565
Suraci, D. 3434
Surendra Singh 1379, 1394
Surjeet Singh 3329
Suselo, T. D. 3801
Suškevič, M. 2180
Sušnik, F. 137
Süss, L. 1086
Sutker, E. M. 1457, 3684
Sutton, D. 2756
Sutton, D. L. 703, 2498
Sutton, P. B. 11
Sutton, R. F. 414
Suzuki, K. 541, 1473
Suzuki, N. 2232
Suzuki, T. 3398
Svechnikov, I. D. 586
Svoboda, L. 2287
Swami, S. S. 1930
Swamy, P. S. 3437
Swanepoel, J. H. 3585
Swann, C. W. 1202
Swann, I. F. 2725
Swanton, C. J. 3146
Sweden, Sveriges Lantbruksuniversitet 277, 577, 3423
Sweet, R. D. 351, 358-359, 2139
Sweetser, P. B. 3214, 3378
Swisher, B. A. 235, 3466
Syamsuddin, E. 970
Syed, A. Q. 324
Syeda, S. T. 2225
Sýkora, J. 807, 1132
Sykut, A. 2968, 3142, 3383
Symington, B. A. 1942
Symons, S. J. 998, 3609
Syrbu, G. A. 2706
Syrel'shchikova, D. P. 2105
Syrett, P. 1458, 1875, 2862
Szabó, L. 2295
Szabó, M. 2893, 3530
Szabolcs, M. 3247
Szász, A. 3543
Széll, E. 2673
Szeto, S. Y. 2313
Szigeti, Z. 2899
Szilvássy, L. 3487
Szwedo, J. 2738
Szwonek, E. 3010
Szymona, J. 1424
Szynal, J. 3142
Taber, R. A. 1452
Tabor, D. G. 1956
Tachibana, K. 220, 233, 611
Taillandier, G. 2591
Taille, G. de la 2994
Taimr, L. 1135-1136
Taiwan, Food and Fertilizer Technology Center for the Asian and Pacific Region 2345
Taiwan Sugar Research Institute 3191
Takagi, N. 2108
Takahashi, E. 2795
Takahashi, N. 1460
Takamura, K. 3402
Takasawa, Y. 615, 3358, 3377
Takayama, C. 2279
Takeda, S. 3214, 3378
Takematsu, T. 220, 233, 615, 2280, 3358, 3377
Takemoto, B. K. 144-145
Takeno, K. 2771
Takimoto, A. 1459-1460, 1465
Talašová, N. 2980
Talbert, R. 548
Talbert, R. E. 903, 1297, 1702, 3735
Taleva, A. 2174, 2374
Talkington, M. L. 2740
Tálos, I. 3468
Tama, K. 1951
Tamot, B. K. 3072
Tan, A. M. 1100
Tan, C. S. 2809, 3647
Tanaka, F. S. 2927
Tanaka, J. 2906
Tanaka, O. 1378, 1405, 1435-1436
Tanaka, R. 1925
Tanaka, T. 615, 3358, 3377
Tanaka, Y. 822, 1518, 3132
Tanchik, S. P. 680
Tanesaka, E. 3293
Tang, C. S. 1041, 1175, 1182, 2811
Tăpor, I. 1604
Tappeiner, J. C., II 3256
Tarafdar, J. C. 2366
Tarkowian, S. 3230
Tarlok Singh 2423
Tascón J., E. 279
Tawfig, S. 2863
Taylor, A. C. 2168
Taylor, F. R. 40, 1231, 2991
Taylor, J. 760
Taylor, M. F. J. 3701
Taylor, M. L. 3370
Taylor, R. 1951
Taylor, R. J. 1796
Taylor, S. A. 1736
Taylor, S. E. 1800, 2786
Taylorson, R. B. 110, 526, 1003, 3283
Tazik, P. P. 427
Tchobanoglous, G. 3415
Teaci. D. 266
Teasdale, J. R. 110, 382, 3239
TeBeest, D. O. 2856
Tecklenburg, L. E. 587
Teem, D. H. 3227
Tei, F. 1271, 1544
Teitz, A. Y. 443
Teixeira, N. M. 55
Tektonidi, I. P. 1260
Templeton, G. E. 778, 2856
Teodorescu, G. 3006
Teoh, C. H. 1100
Tepordei, R. 3017
Teraoka, T. 2274
Terëkhin, E. S. 2132-2133
Ternes, M. 1054
Terpó, A. 1385, 1398, 3315
Terpstra, R. 994
Terry, P. J. 3798
Teshima, M. 56
Tesprateep, T. 2294
Tette, J. P. 351
Tham, C. 3582
Thangavelu, K. 449
Thayes, D. D. 743
Therrien, H. P. 1775
Thiel, A. 227
Thiery, R. G. 3586
Thies, E. P. 1554
Thill, D. C. 1578, 1811, 2608
Thilsted, W. E. 1234
Thoer, K. 1630
Thomas, A. G. 486, 753, 1053, 2192, 2196, 2199, 2816
Thomas, D. L. 2468
Thomas, J. A. 720
Thomas, J. D. R. 1937
Thomas, P. A. 3703
Thomas, P. E. L. 2373
Thompson, A. 1279-1280
Thompson, A. R. 874
Thompson, J. C. 2084
Thompson, L., Jr. 269, 2588, 2881
Thompson, R. G. 572
Thomson, L. A. 2350
Thomson, W. T. 3419, 3425
Thornton, M. E. 7, 589
Thorsch, J. A. 1847
Thorsness, K. B. 3768
Threadgill, E. D. 2331
Throssell, C. S. 3154
Thullen, R. J. 1037, 3229, 3623-3624
Thurley, B. 3070
Tiedje, J. M. 1402
Tiktak, A. 2317
Tila, G. K. 911
Tillett, T. 1555
Tillett, T. C. 2327, 3592
Tillman, P. G. 3519
Timms, L. D. 1119
Tinarelli, A. 1593
Tincheva, T. 1077
Tineo, E. B. R. 3493
Tinkari Dalal 2553
Tinnin, R. O. 1060, 1861, 2834
Tisdell, C. 2560
Tisdell, C. A. 2492
Tissut, M. 229, 2591, 2887
Titi, A. El- 1549
Titova, O. V. 801
Tiwana, M. S. 2423
Tiwari, J. P. 2362, 2378
Tjarks, L. W. 791
Tjitrosemito, S. 972, 1038, 3031
Tjitrosoedirdjo, S. S. 3071
Tkachenko, A. L. 579
Tobing, T. L. 970
Tocher, R. D. 1060
Todaria, N. P. 1404
Todd, B. G. 1126, 2579
Todua, N. A. 689
Todzia, C. A. 2548
Tohamy, A. 907
Tokarev, V. I. 3119
Tokhver, A. K. 1137
Toler, J. E. 473, 496, 910
Tolikina, N. F. 540
Toll, J. 3447
Tomášková, D. 618, 1120
Tomer, D. P. S. 3223
Tomer, P. S. 2973
Tomizawa, C. 211, 1463, 2259
Tomkyavichyus, P. K. 1161
Tomley, A. J. 3713
Tomlin, J. B. 1916
Tomoroga, P. 602, 1567
Toole, A. P. 2922
Topić, J. 2188
Torell, J. M. 492, 1787
Torello, W. A. 70
Torner, C. 3454
Torralba Redondo, B. 2321, 2939
Torres, L. R. 1680
Torres, R. de A. 55
Tóth, I. 3194
Toth, J. 1936
Tothill, J. C. 3799
Totsuka, T. 2485
Touraud, G. 2586
Towers, G. H. N. 2576
Townsend, A. M. 2441
Townsend, S. C. E. 9
Townson, J. K. 2763
Townzen, K. R. 771
Traets, J. 54
Trammell, C. A. 40, 3507
Trammell, C. A., Jr. 1229
Tran Phuoc Duong 1402
Trebst, A. 2590
Trewick, S. 489
Triebe, F. M. 2911
Triebel, U. 1632, 1656
Triest, L. 181, 484
Trikov, V. S. 892
Trinajstić, I. 2147
Tripathi, R. S. 1839, 3648
Tripathi, S. K. 2620
Tripathi, S. N. 2717
Tripathy, B. C. 1901
Triplett, G. B. 3432
Tripp, T. N. 42, 2803
Tritter, S. A. 1126, 2579
Trivedi, K. K. 2362, 2378
Troiano, J. J. 1168
Trojanowski, H. 2296
Trotta, L. 3199
Troxler, J. 3236
Trozelli, H. 293
Truelove, B. 2821
Trujillo, E. E. 1871, 3694
Truksa, J. 2038
Trunkovskaya, N. S. 3399
Trzaskoś, M. 369, 930
Tsai, J. H. 2849, 3352
Tsai, W. F. 3357
Tsarik, I. V. 2205
Tscheu-Schlüter, M. 2602
Tsedeke Abate 3421
Tsutsui, I. 1438
Tsvelev, N. N. 2160
Tsvetkova, F. 3323
Tucci, M. A. 1479
Tucker, D. P. H. 962
Tucker, J. C. 2504
Tugwell, N. P. 326
Tung, C. H. 692
Tuohy, J. 1058
Turesson, S. 3786
Turgunov, E. 364
Turmail, A. M. 2461
Turner, C. E. 3084
Turner, D. J. 588, 593
Turner, D. L. 1314, 2103, 2465
Turner, M. M. 1276
Turner, P. E. T. 3253
Turner, S. K. 1457
Turner, T. R. 399
Turski, R. 1408
Turvey, N. D. 981, 2114
Tüske, M. 3765
Tuxhorn, G. L. 1508
Tweedy, J. 2445, 2447
Tyson, R. V. 2407
Tyurebaev, S. S. 1092
Tyurina, L. A. 810
Tyuryukanova, G. K. 245
Uchiyama, M. 1473
Uchiyama, Y. 2280
Udoh, D. J. 3742
Ueda, A. 2041
Uehara, M. 2771
Ueki, K. 3300
Ueno, M. 3602
Ugherughe, P. O. 929
Ugryumov, A. V. 612
Ugryumov, E. P. 3744
Uher, R. 1165
Uhm, K. B. 3077
Uhríková, A. 1382-1383
Ui, T. 2228
UK, Association of Applied Biologists 3, 278, 856
UK, Department of the Environment 3143
UK, Imperial College of Science and Technology 574
UK, Ministry of Agriculture, Fisheries and Food, Health and Safety Executive 581
UK, Ministry of Agriculture, Fisheries and Food, Pesticides Branch 570
UK, Norfolk Agricultural Station 275
Ukai, S. 2299
Ullah, M. H. 1826
Ullmann, J. 1372, 1374
Ulmann, L. 2649
Ulrich, T. S. 2650
Ulvoczki, C. 2754
Unai, T. 211, 1463, 2259
Underdal, B. 3069
Ungurean, L. 2222
United Nations Development Programme 2959
Uniyal, B. P. 1394
Upadhyaya, M. K. 1880
Upadhyaya, S. K. 2149
Upham, B. L. 2587, 3720
Urbach, W. 2312
Urrutia, V. M. 2764
Uruguay, Centro de Investigaciones Agricolas "Alberto Boerger" 598
Urvantseva, G. A. 806

USA, American Chemical Society 2001, 2347-2349, 2954
USA, American Society of Agricultural Engineers 855
USA, Botanical Society of America 1999
USA, Louisiana Agricultural Experiment Station 1536
USA, Northeastern Weed Science Society 2003
USA, US Agency for International Development 2959
USA, US Congress, Office of Technology Assessment 2004
USA, Western Society of Weed Science 2005, 2951
USSR, Latviĭskaya Sel'skokhozyaĭstvennaya Akademiya 861
USSR, Stavropol'skiĭ Sel'skokhozyaĭstvennyĭ Institut 1178
USSR, Yaroslaval'skiĭ Universitet 859
Ustimenko, G. V. 3731
Utomo, I. H. 972, 1040, 3031
Uyemoto, J. K. 1713
Uzcategui, R. C. de 1876
Vacek, J. 3512
Vaishampayan, A. 2322
Vakil, J. R. 1535
Valeeva, Z. B. 1160
Valera Gil, A. 3232
Valk, A. G. van der 2794
Valverde, L. R. 2808
Van Cantfort, A. 1753
Van de Velde, G. 490
Van der Linden, M. J. H. A. 1031
Van Der Puy, D. L. 1670, 2365
Van der Valk, A. G. 2794
Van der Zweerde, W. 101
Van Dijk, G. M. 743
Van Duyn, J. W. 551
Van Dyk, L. P. 3747
Van Dyke, C. G. 1453
Van Emon, J. M. 1939
Van Esbroek, M. 1406
Van Groenendael, J. M. 1431
Van Himme, M. 13-15, 20-21, 24, 29, 38, 63, 274, 281, 348, 350, 353, 363, 376, 379, 383-385, 387-388, 392, 404-405, 407, 495, 1618, 1620
Van Rensen, J. J. S. 226
Van Staden, J. 2476
Van, T. K. 494, 699, 1162
Van Vierssen, W. 762
Van Wijk, R. J. 725
VanCantfort, A. M. 207, 2743, 2932
Vancantfort, A. M. 3384
Vance, B. D. 2478
Vance, H. N. 3601
Vander Borght, P. 422
Vander Kloet, S. P. 1797
Vanderbilt, V. C. 3189
Vandiver, V. V., Jr. 699, 2756
Vaňha, B. 3512
Vanhecke, L. 759
Vanner, A. L. 1346
Vannozzi, G. P. 1270
Váňová, M. 603, 876, 2029
Vánová, M. 2649
VanWinkle, D. 1232, 1666
Vapper, M. 2263
Varga, L. 711
Vargas, R. 1319, 1712
Varghese, A. 1812
Vargová, V. 2239
Varis, E. 848
Varkonda, S 2275
Varovin, A. V. 3399
Varvinchenko, V. I. 1590
Vasconcelos, T. 2643
Vasetskiĭ, V. F. 1288
Vashegyi, A. 3716
Vasil'chenko, V. F. 2267
Vasil'ev, V. Yu. 1150
Vasudevan, P. 3788
Vaughan, J. G. 2148
Vaughan, K. C. 3733
Vaughan, M. A. 3733
Vaughn, K. C. 215, 217
Vávra, J. 3161
Vavrina, C. S. 65, 2251
Vázquez C., A. 2814
Vazquez Cobo, A. 2647
Vecchio, V. 39, 1251, 3781
Vechtomova, T. N. 885
Veenstra, M. A. 285, 2984
Vega, V. 965
Velari, T. C. 2150
Velayuthan, A. 1718
Velazco, A. 2691
Velde, G. van de 490
Velde, G. van der 2141
Velemínský, J. 1854
Velev, B. 2429
Veleva, V. 3456
Veljović, V. 2195
Velovitch, J. J. 2387, 2624
Velten, R. K. 3338
Venanzi, G. 3656
Venedichuk, N. F. 892
Vengris, J. 70
Venkataraman, N. S. 2047
Venkateswarlu, U. 2995
Venugopal, M. N. 755
Verhalen, L. M. 2806
Verkaar, H. J. 731
Verkleij, J. A. C. 728, 1074
Verma, A. N. 2341
Verma, D. M. 1376
Verma, K. K. 194
Verma, K. L. 2362
Verma, P. C. 3038
Verma, P. R. 2412
Verma, R. S. 2697
Vermaak, J. 3585
Vesecky, J. F. 2984
Vetter, J. 2128
Vézina, L. 1775
Viana, A. C. 2974
Vicari, A. 614
Victória Filho, R. 621
Victoria Filho, R. 482, 2052, 2094
Vidrine, C. G. 3257
Vidrine, P. R. 1197
Vieira, D. C. 2069
Vieira, R. de M. 2069
Vierssen, W. van 421, 762
Vigneault, C. 1525
Vigoureux, A. 1609
Vilâu, N. 602
Vilents, V. S. 1167
Viljoen, A. J. 3747
Viljoen, P. T. 3749
Villanueva, V. R. 1368
Villányi, E. 3468
Villar Moreno, A. L. 2321, 2939
Villarias Moradillo, J. L. 1613
Villarreal, R. 3792
Villaveces, A. 42
Villiers, O. T. de 999
Vince-Prue, D. 3320
Vincent, P. G. 1885
Vincente Espinosa, A. 264
Vinciguerra, P. 2413
Virchenko, E. P. 2909
Virginia, R. A. 132
Vişan, I. 2918
Vishnyakov, Yu. E. 411
Visi, G. 3748
Višňák, R. 481
Visser, C. L. M. de 851, 1621
Vithal Rao, T. M. 2933
Vitolo, D. B. 336-337, 339, 396, 1261
Vivekanandan, M. 1361
Vizárová, G. 530, 534
Vlăduţu, I. 602, 1567, 1585
Vlasenko, A. N. 2258, 3119
Voevodin, A. V. 797, 870, 948, 1021, 1154, 1157, 1317
Vogel, H. 1477
Vogel, K. P. 3385
Voges, M. 361
Vogtmann, H. 2013
Voigtländer, G. 1677
Vokál, B. 3512
Volenik, S. 2197
Volf, F. 1420
Volke, J. 1854
Volkeová, V. 1854
Volkov, S. A. 540
Volodina, T. I. 943
Volovnik, S. V. 1085
Vongsaroj, P. 1789
Vonk, J. W. 2323
Vonmoos, R. 1457
Vora, A. B. 1056
Vore, R. E. 1274
Voronina, O. Yu. 802
Vörös, L. 3631
Vossen, P. M. 3574
Voth, R. D. 1326, 1342
Voznesenskaya, E. V. 2212
Vrânceanu, A. V. 1076
Vrbanić, J. 2750
V"rbanova, S. 3510
Vries, P. J. R. de 1355
Vullioud, P. 3207
Vyas, K. G. 3305
Vyas, S. C. 2620
Vylegzhanina, V. V. 2273
Wachope, R. D. 3171
Wada, S. 2126
Waddington, J. 2634, 2722
Wade, M. 1380
Wade, P. M. 489, 759
Wagenitz, G. 2823
Waggoner, P. E. 1528, 1990
Wagner, H. J. 1577
Wagner, K. G. 3662
Wagner, L. K. 1357, 1835
Wahid, A. U. A. 2850
Wahl, D. B. 2249
Wahmhoff, W. 1548, 1810, 1817
Waisel, Y. 160, 497
Wajid, S. M. A. 2718
Wakabayashi, K. 2274
Waldecker, M. A. 1888
Walia, U. S. 604, 3455
Waliszewski, S. 3151
Walker, A. 2305, 2611
Walker, H. L. 1870
Walker, K. L. 3244
Walker, R. H. 256, 1238, 2398, 3186, 3339, 3414, 3757
Walker, S. B. 2962
Walker, S. R. 344, 2333
Wall, D. A. 305
Wall, R. E. 3695
Wallace, R. W. 429, 754, 2536
Waller, J. E. 1285
Waller, S. S. 370, 3237
Wallinder, C. J. 341-342
Wallnöfer, P. R. 815
Walls, F. R., Jr. 1645
Walls, K. M. 3564
Walstad, J. D. 2439-2440
Walther, H. 1911
Walton, G. H. 2510
Wambolt, C. L. 61
Wanamarta, G. 3272
Wang, B. H. 3650
Wang, C. J. 1659
Wang, H. D. 3076
Wang, R. 774, 2243
Wang, T. 1666
Wang, Y. 1938
Wang, Y. Q. 2234
Wanner, J. 2834
Wapshere, A. J. 3704
Ward, C. E. 1914, 1916
Ward, J. 180
Wareing, P. F. 583
Warholic, D. T. 429
Warmund, M. R. 2732
Warner, J. E. 1253
Warner, R. W. 1558
Warren, S. L. 1275, 1729
Warwick, S. I. 1016, 1845
Washino, R. K. 698, 766-771, 1087
Washio, N. 1473
Washüttl, J. 1486
Watanabe, J. 2795
Watanabe, T. 220, 233
Watschke, T. L. 397
Watson, A. K. 784, 1751, 3085, 3094, 3096, 3680, 3692
Watson, B. 1445
Watson, D. G. 3174
Watson, M. 2936
Watson, M. A. 3622
Watson, M. J. 1335
Watt, T. A. 2778
Wax, L. M. 624, 2472, 2509, 2512, 3475
Way, M. J. 3350
Weakley, C. V. 1529
Weatherspoon, C. P. 3260
Weaver, S. E. 1053, 2809, 3647
Webb, D. P. 742
Webb, F. 44
Webb, F. J. 296, 333
Webber, J. B. 557
Weber, B. C. 3259
Weber, J. B. 237
Webster, W. 652
Weed, S. B. 557
Weeldenberg, J. 472
Weerakoon, W. L. 445, 465, 467
Wegener, K. E. 1155, 2319
Wegmann, K. 1069
Wegorek, W. 2296
Wehtje, G. 558, 652, 3225, 3339, 3504-3505, 3757
Wehtje, G. R. 2398, 3226, 3414, 3503
Wei, Y. N. 2140
Weidenfeller, T. A. 2446
Weihs, D. 2635
Weimer, M. R. 235, 3466
Weiss, J. 2357, 2361, 2417
Weiss, P. W. 2487
Weisshaar, H. 3721
Welewa, W. 3456
Welker, O. 1977
Welker, W. V., Jr. 73
Weller, S. C. 3285, 3545, 3594, 3734, 3738
Wells, D. W. 1310, 1687
Wells, H. D. 1454-1455
Wells, R. B. 2668
Wendland, U. 2032
Wentworth, T. R. 3263
Werner, G. M. 3728
Werner, P. A. 1798
Wertz, M. K. 248
Weseloh, J. W. 312
Wesołowski, M. 1364, 1367, 1422, 2656, 2781, 3047-3048
Wesselius, J. C. 226
West, A. S. 3427
West, C. J. 1903
West, L. D. 2327
West, T. M. 60, 2009-2011
West. T. M. 2012
West, T. M. 2074
Wester, D. B. 935-936
Westerdahl, H. E. 2452
Westerman, R. B. 1239, 3518
Westerman, R. L. 823, 1973
Westlake, D. F. 97, 704
Weston, L. A. 1043
Westphal, A. 1034
Westwood, J. H. 1906
Wet, J. M. J. de 2793
Wetzels, A. M. M. 464
Wevers, J. D. A. 1615
Weyers, J. D. B. 2546-2547, 2788, 2831
Whatley, L. L. 1666, 2055, 2391, 2695
Wheeler, R. M. 792
Wheeler, W. B. 2288
Wheless, T. G. 3124
Whipps, J. M. 527

Whisenant, S. G. 1970
White, D. E. 1684, 1737-1738, 1740
White, G. B. 351
White, G. C. 1507
White, M. D. 3501
White, R. E. 243
White, R. G. 792
White, T. A. 80, 82-83
Whitehead, R. 1739
Whitney, N. G. 1452
Whitney, P. J. 1065
Whitney, R. W. 1164
Whitson, T. D. 1673
Whittaker, P. L. 782
Whitwell, J. D. 375
Whitwell, T. 256, 652, 1196
Whorton, J. M. 2747
Wickremasinghe, K. N. 2935
Wicks, G. A. 318, 468, 894, 2941, 2965
Wideman, A. S. 3467
Widholm, J. M. 520
Widholm, J. W. 214
Widmer, U. 1611
Wieczorek, J. S. 2907-2908
Wielkopolski, W. 2907
Wien, R. G. 2927
Wieniarska, J. 2738
Wiens, D. 1849
Wiepke, T. 327
Wiese, A. F. 638, 925, 1253, 1822, 2495
Wiese, A. M. 2785, 3606
Wiesmann, C. 3255
Wiest, S. C. 2592
Wiewiórka, Z. 426, 733
Wijk, R. J. van 725
Wilcut, J. W. 2821, 3225, 3414, 3503
Wilding, J. L. 1022
Wiley, G. L. 2514
Wilk, J. 1587
Wilkerson, M. R. 1168
Wilkinson, R. E. 440, 2902, 3139, 3282
Wilkinson, R. R. 1504
Willard, T. R. 1312
Willén, T. 3069
William, R. D. 2125, 2257
Williams, D. J. 3244, 3271
Williams, G. H. 1947, 3796
Williams, J. L., Jr. 2514
Williams, K. S. 2871
Williams, M. C. 119, 441, 1282, 2467
Williams, P. A. 2770
Williams, P. C. 3804
Williams, R. D. 152, 2477, 3074
Williams, R. J. F. 723
Williams, W. D. 1736
Williamson, R. L. 2084
Willis, G. D. 3032
Willis, G. H. 2316
Willis, M. D. 1471
Willmer, C. M. 1111, 2789
Wills, B. J. 2723
Wills, G. D. 3171
Willson, B. W. 3707
Wilson, A. K. 1859, 2355, 2646
Wilson, B. A. 771
Wilson, B. J. 7, 3179
Wilson, C. A. 1849
Wilson, G. R. 1935
Wilson, H. D. 1783
Wilson, H. P. 317, 340
Wilson, K. J. 3658
Wilson, L. F. 3258
Wilson, R. F. 204
Wilson, R. G. 642, 1294, 1508, 2615, 3012
Wilson, S. W. 3352
Wimaladasa, G. D. 2935
Winder, R. S. 1453
Winfield, R. J. 114
Wink, L. 1489-1490
Winkle, D. van 1232, 1666
Winkler, F. 1501
Winkler, K. 1554, 1972
Winkworth, J. 58
Winn, A. A. 1768
Winner, C. 1612
Winstel, K. 2672
Winter, S. R. 1253
Winter, W. 2602
Winterlin, W. L. 1500, 1962
Wise, R. F. 2192, 2196, 2199, 2816
Wiselius, S. I. 1073
Wiseman, J. S. 355-356
Wises, A. F. 251
Wislowska, E. 547
Wisłowska, E. 1216
Witt, W. W. 331, 1117, 1602, 2668, 3724
Wittekindt, W. 3001
Wittwer, R. F. 1330
Witz, J. A. 832
Witzel, D. A. 3033
Wodageneh, A. 917
Wöhler, B. 560
Wohlgemuth, K. 3036
Wójcik, W. 3383
Wójcikowska-Kapusta, A. 1408
Wolf, P. G. 2824
Wolfe, W. H. 715
Wolff, R. L. 3174
Wollensah, A. 2568
Wolseley, P. A. 757
Wong, R. Y. 2466
Wood, G. M. 2851
Wood, H. 1007, 2077
Wood, J. T. 1026
Wood, R. K. S. 3350
Woodrow, J. E. 2311, 2915, 3397
Woods, N. 1985
Woods, W. 3714
Woodward, M. D. 1945, 1955
Woon, C. K. 1644
World Health Organization 2278
Worley, E. E. 3234
Worley, P. C. 3234
Worobey, B. L. 2597, 2601
Worsham, A. D. 204, 366, 1645, 3027, 3432, 3772
Worsham, D. 1467
Worthing, C. R. 2962
Worthy, L. M. 1227
Wouters, L. 2298
Wray, V. 3662
Wright, A. D. 786
Wright, B. W. 544
Wright, G. M. 2746
Wright, H. A. 62
Wright, H. C. 663
Wright, R. J. 351
Wright, S. D. 3445
Wrucke, M. A. 2623
Wu, C. H. 3479
Wu, M. H. 2395
Wu, S. M. 1901
Wulff, R. D. 2515
Wybieralska, A. 879
Wymore, L. 3692
Wymore, L. A. 3085
Wynne, D. 239
Wyse, D. L. 434, 2082, 2370, 2483-2484, 2981, 3659
Yaacoby, T. 3131
Yabuno, T. 1025
Yadav, D. V. 1172
Yadav, O. P. 3329
Yadav, R. K. 2341
Yadav, S. K. 2996
Yadov, N. S. 2272
Yagi, M. 2165
Yakolev, I. D. 2062
Yamaguchi, I. 1460
Yamashita, J. 1988
Yao, J. 3076
Yarborough, D. E. 402-403, 670
Yaron, B. 243
Yarovoĭ, G. I. 852
Yasuno, M. 3402
Ye, X. H. 3364
Yeh, H. J. 3251
Yeiser, J. L. 1338, 2748-2749
Yesoda, N. 1389
Yin, Y. Q. 2559
Ying, X. D. 3669
Yogo, Y. 3379-3380
Yokoyama, T. 1378
Yonekura, Y. 541
Yorinori, J. T. 908, 3696
York, A. C. 2998
Yoshida, K. 839
Youmans, C. D. 2693
Younes, M. W. F. 3353
Young, A. L. 1510
Young, F. L. 1033, 1808
Young, J. L. 242
Young, J. P. 2486
Young, J. R. 2331
Young, K. A. 2078, 2136
Young, R. S. 406
Young, R. W. 3162
Young, T. W. 769
Yu, K. F. 2415
Yu, S. M. 1697
Yudin, L. S. 3336
Yue, S. X. 3363-3364
Yugoslavia, Jugoslovensko Društvo za Proučavanje i Suzbijanje Korova 2346
Yun, J. I. 1800
Yurina, L. V. 961
Yushkevich, L. V. 22, 1562
Yuyama, T. 3214, 3378
Zabkiewicz, J. A. 247, 695, 1329
Zabulon, G. 2266
Zafar, M. A. 1207
Zaher, N. A. 1082
Zahn, K. 636
Zakharenko, V. A. 868, 1170
Zama, P. 1125, 2271, 2580, 2972
Zamir, N. 2493
Zandstra, B. H. 3546
Zangrando, G. P. 1086
Zanin, G. 3308, 3612
Zanini Neto, J. A. 1663, 1830
Zaremba, J. R. 2459
Zashchita Rasteniĭ 869
Zatuchnyĭ, V. L. 889
Zavadskaya, V. A. 2928
Zaveryukhin, V. I. 586, 866
Zawiślak, K. 2067
Zbyryt, I. 2908
Zdziebkowska, T. 2700
Zedaker, S. M. 84, 1331, 1725, 2117, 3265
Zehr, B. E. 520
Zehr, E. I. 2558
Zeid, A. A. Abu- 1082
Zemánek, J. 761, 816, 864, 875, 1055, 2030, 2594
Žemlová, D. 1879
Zeng, Q. 1505
Zeren, Y. 3168
Zhai, W. X. 3363-3364
Zhang, C. L. 794
Zhao, H. 3669
Zharokova, R. G. 606
Zhongze, Q. 1984
Zhovner, I. M. 1300
Zhu, L. H. 3363-3364
Zhu, R. H. 3363-3364
Zhu, W. S. 1223
Zhukova, P. G. 2160
Zhurakulov, A. 923
Zhyamaĭtis, V. E. 1662
Zia-ur-Rahman 2381
Ziegler, W. 533
Zilkey, B. F. 1647
Zimdahal, R. L. 887
Zimdahl, R. L. 1546, 1589, 2470, 3408, 3607
Zimmer, M. 2545
Zimmermann, H. G. 2866
Zimovskaya, A. T. 25
Živanović, M. 2203-2204
Zoll, A. 2787
Zon, J. C. J. van 2759
Zonta, E. P. 1608
Zorner, P. S. 224, 1915, 3138
Zorya, S. E. 1629
Zoschke, M. 1824
Zschau, K. 1284
Zsoldos, F. 2892, 3716
Zubaidi, F. Al- 3672
Zubkova, I. G. 2157
Zubkova, N. F. 513
Zublena, J. P. 43, 561
Zuin, M. C. 3308, 3612
Zutter, B. R. 1722, 1733, 1819
Zuza, V. S. 852, 1014
Zwanenburg, B. 1079
Zweerde, W. van der 101
Zwick, W. 1631, 2984
Zwietering, F. W. 101
Zwölfer, H. 3100
Zwolińska-Śniatałowa, Z. 2700, 2900-2901

SUBJECT INDEX

620
ABA 1210, 1460, 2878
Abies 84, 1336, 2443
Abies amabilis 1739
Abies balsamea 86, 89-90
Abies concolor 3267
Abies fraseri 67, 1729
Abies grandis 1739
Abies magnificae 1446
Abies procera 1737
Abutilon 1543
Abutilon indicum 898, 3240
Abutilon theophrasti
biology
anatomy 1800
composition 2140
identification 3189
leaves 2786
photosynthesis 1800, 2786
physiology 2140
taxonomy 2148
transpiration 2786
water relations 1800, 2786
control
biological control 2761, 3088
fungi 2839, 2864, 3085, 3692
insects 2864
chemical control 335, 343, 1219, 1227, 2390, 2761
acifluorfen 339, 342, 2053, 2839, 2989
alachlor 313, 336, 2053, 3372
atrazine 312-313
bentazone 339, 708, 2053, 2989, 3220
bromoxynil 708
chloramben 41
chlorbromuron 708
cinmethylin 3372
cyanazine 312-313
2,4-D 708
dicamba 708
fluazifop 41, 2393
fomesafen 2393
haloxyfop 41, 336, 2393
imazaquin 336
isoproturon 708
linuron 41, 334, 339, 342, 708
metolachlor 313, 336
metribuzin 339, 342
pendimethalin 313, 336, 2053
sethoxydim 2053
simazine 313
thidiazuron 3085
tridiphane 312
trifluralin 3372
cultural control 2761
herbicide application
acid rain 608
physiology 608, 3728, 3741
rain 2990
resistance 3741
integrated control 2839, 3085
no-tillage 1358
ecology
allelopathy 3649
competition 3057
distribution 708, 1050, 2194
exudates 3649
nutrient uptake 2177
spread 2761
water relations 3057
water stress 3074, 3649
plant diseases 2514
seeds 2761
buried seeds 3612
depth of burial 1008, 1356, 3612
dormancy 1050
germination 1008
inhibitors 791
moisture 1356
temperature 1358
longevity 3612
production 2177
rain 1008
Abutilon theophrasti *cont.*
seeds *cont.*
size 2177
soils 1356
structure 2148
Acacia 3714
Acacia constricta 1685
Acacia dealbata 238
Acacia decurrens 3336
Acacia farnesiana 3792
Acacia longifolia 3089
Acacia nilotica 2724, 3707
Acalypha indica 898, 2409
Acalypha rhomboidea 1798, 3066
Acanthospermum 3507
Acanthospermum hispidum 2094
Acer 90, 2851, 3243, 3580
Acer ginnala 2732
Acer macrophyllum 1684, 1738
Acer negundo 1105, 3315
Acer pensylvanicum 88, 90
Acer pseudoplatanus 2569
Acer rubrum 89-91, 112, 1331, 1736, 2451, 2749
Acer saccharum 90-91, 94
Acetamide, *N*-[(acetylamino)methyl]-2-chloro-*N*-(2,6-diethylphenyl)- 3490, 3492
Acetamide, *N,N*-diallyl-2,2-dichloro- 156, 315-316, 374, 612, 866, 889, 934, 1055, 1213, 1464, 1588, 1590, 1607, 1626, 1909, 3470, 3500, 3753
Acetamide, 2,2-dichloro-*N,N*-di-2-propenyl- 2970
Acetamide, *N*-ethyl-*N*-benzyldichloro- 3753
Acetamides, *N*-(1-methyl-1-phenylethyl) phenyl- 2279
Acetic acid, 5-[2-chloro-4-(trifluoromethyl) phenoxy]-2-nitroacetophenone oxime-*o*- 1224
Acetic acids, phenoxy- 2882
Acetochlor
formulations 2942
pellets 248
physiology
absorption 3477
degradation 514
metabolism, peptides 514
mode of action 514
uptake 3477
residues, water 3748
soils, degradation 2924
usage
crops
cereals 318, 2675, 2942, 3469
oil plants 3527
ornamentals 1303
plantation crops 968, 3252
damage 3477
no-tillage 318
safeners 2377, 3477
Achillea aspleniifolia 1384
Achillea collina 837
Achillea millefolium 1171, 1287, 1348, 2169, 2568, 2719, 3538, 3636
Acifluorfen
physiology
absorption 3124, 3126
cytology
cell membranes 2896
chloroplasts 2896
metabolism 1605, 3124
enzymes 1902
fatty acids 2896
lipids 1902
pigments 1899, 2621
vitamins 1902
mode of action 529, 2896, 3719-3720
photosynthesis 529, 3720
respiration 1123, 2896
translocation 3124, 3126
soils
mesofauna 3772
Acifluorfen *cont.*
soils *cont.*
microorganisms, fungi 2621
toxicology, arthropods 3772
usage
additives 2459, 2989, 3218
antagonism 1233-1234
application, methods 2333
compatibility
fertilizers 2329, 2989
herbicides 2692, 3126
crops
legumes 339-340, 342, 1229-1231, 1233-1236, 1240, 1242, 1247, 1252, 1281, 1455, 1601, 1603-1605, 1671, 2053, 2386-2387, 2390, 2392, 2459, 2695, 2983, 2986, 2989-2992, 3218, 3475, 3495, 3499
small fruits 1702, 2734
vegetables 650, 1696, 3013, 3239
damage 1236, 1605, 2408
mixtures 1233-1234, 1236, 2392, 2459, 2983, 3218
pests 3772
rain 2390, 2990
sequences 1234
weeds 2460, 2839
wetters 1234, 2392
yields 1252, 1262, 2991
Aclonifen
usage
crops
cereals 29
root crops 355
Acorus calamus 1994
Acrolein
analytical methods, gas chromatogrphy 1918
residues, water 1918
Acroptilon picris (*see Acroptilon repens)*
Acroptilon repens 606, 784, 895, 1042, 1092, 1109, 2466
Actinidia deliciosa 1318
AD-67 2673
Adenostoma fasciculatum 1108, 1683, 3338
Adenostoma sparsifolium 3338
Adonis vernalis 2019, 2181
Aegilops cylindrica 1201, 1808, 2470, 3607
Aegopodium podagraria 3597
Aeschynomene virginica 778, 780-781
Aethusa cynapium 448, 485, 2200
Agalinis purpurea 1081
Ageratina riparia 3694
Ageratum conyzoides 1594, 2533, 2675, 3600, 3604
Agrimonia eupatoria 477
Agropyron 2162
Agropyron cristatum 2079
Agropyron ramosum 960
Agropyron repens (*see Elymus repens)*
Agrostemma githago 1042, 2488, 2815
Agrostis 404, 958, 1631
Agrostis alba 1365, 3539
(*see Agrostis stolonifera)*
Agrostis canina 1799
Agrostis capillaris 59-60, 1276, 1283, 1660-1661, 2427
Agrostis gigantea 284
Agrostis nigra (*see Agrostis gigantea)*
Agrostis palustris (*see Agrostis stolonifera)*
Agrostis stolonifera 59, 164, 399, 404, 1367, 1416
Agrostis stolonifera* var. *palustris 953
Agrostis tenuis (*see Agrostis capillaris)*
Agrostis vulgaris (*see Agrostis capillaris)*

Ailanthus altissima 1174, 3315
Aira praecox 122
Ajuga chamaepitys 2815
Alachlor
analytical methods
gas chromatography 1509, 2911
gas liquid chromatography 1933
mass spectrometry 2911
application
equipment 3777
methods 3777
formulations 2942
physiology
cytology 3721
cell membranes 2376
chloroplasts 2376
metabolism
amino acids 2707
carbohydrates 2707
carotenoids 2707
enzymes 3721
lipids 3721
peptides 3739
proteins 2707
mode of action 1432
photosynthesis 3721
uptake 3028, 3721
residues
atmosphere 1947
water 1485, 2911
soils
adsorption 3504
degradation 241, 1509, 2925
irrigation 866
leaching 866, 1485
mesofauna 3772
microbial activities 2374
microbial degradation 241
microorganisms, bacteria 2322
movement 2605
persistence 1509
photolysis 2925
rain 2605
runoff 1485, 2911
types 2605
vaporization 1509
toxicology
arthropods 3772
disposal 552
mutagens 2322
usage
application
equipment 2946
methods 249, 314, 2627, 2970, 3028, 3172
compatibility, insecticides 2616
crops
cereals 27, 313-314, 318, 614, 888, 1211, 1220, 2042, 2371, 2374, 2616, 2675, 2813, 2942, 2970, 3467, 3469-3470, 3479-3480, 3735
fibre plants 1211, 2069-2070, 3229
fodder crops 2037
forests 3025
legumes 39, 328-329, 586, 621, 624, 627, 910, 1211, 1240-1242, 1252, 1281, 1601, 2053, 2069, 2394-2395, 2813, 2986, 2992, 3216, 3226-3227, 3499, 3503-3504, 3506, 3508-3509, 3777
oil plants 1269-1271, 2413, 3522
ornamentals 951, 1301-1303
root crops 2405, 2707
tree fruits 1324
vegetables 374, 1295, 1687, 3242, 3547
damage 1270, 2376, 3025, 3227, 3467, 3480, 3504, 3506, 3509
diseases 2620
economics 3509
incorporation 2627
mixtures 586
no-tillage 318
nodulation 1597
pests 3772
quality 3504

Alachlor *cont.*
usage *cont.*
safeners 309, 614, 897, 1909, 2377, 2673, 3480, 3500, 3580
temperature 3028
tolerance 1055
weeds 336
wetters 317
yields 1252, 1270, 2394-2395, 3467, 3479-3480, 3504, 3508-3509
Alanine, L-2-amino-4-[(hydroxy)(methyl) phosphinoyl]-butryl-L-alanyl-L- 611, 1097
Alchornia yambuyaensis 2526
Alectorolophus major *(see Rhinanthus angustifolius)*
Algae
biology
composition 3069
genetics 1891
growth rate 734
photosynthesis 734, 1891
physiology 1891, 3322
taxonomy 727
water relations 734
control
chemical control 859
acrolein 99
copper sulphate 418, 985
2,4-D 3401
diquat 97
endothal 417
hydrogen peroxide 106
streptomycin sulphate 3153
cultural control 97
herbicide application
physiology 531, 801, 859, 985, 2274, 2312, 2590, 3322, 3381, 3721, 3729
residual effects 565
resistance 3381
tolerance 2590
ecology
competition 1355
distribution 170, 1225, 3069
habitats 1052
light 1355
population increase 170
water temperature 1355
Alisma 1226, 1593, 1847
Alisma canaliculatum 2905
Alisma gramineum 3651
Alismataceae 1847
Allelopathins 204, 367, 1042-1043, 1045-1046, 1107-1110, 1112, 1175, 2520, 2775, 3717
Allium canadense 441
Allium carolinianum 846
Allium cepa 441
Allium scorodoprasum 2719
Allium vineale 436, 871, 1746, 2659, 2665
Alloxydim
analytical methods, bioassays 3758
chemistry
development 2280
structure-activity relationships 2280
synthesis 2280
properties 2280
residues, soils 875
soils
leaching 3758
persistence 875, 3758
toxicology 2280
usage
additives 665
crops
cereals 875
legumes 620, 1598, 1601, 2383, 3551
oil plants 1643
root crops 48, 1625, 2061, 2703
tree fruits 2737
vegetables 950
damage 2383
mixtures 1625
residual effects 875

Allyl alcohol 504
Alnus 2449
Alnus glutinosa 83
Alnus rubra 1684, 1738-1739, 3306
Alnus rugosa 2436, 2851
Alopecurus 2360, 2684, 3077
Alopecurus aequalis 3076
Alopecurus geniculatus 122, 1656
Alopecurus myosuroides
biology 451
breeding 3362
phenotypes 3362
taxonomy 1383
control
chemical control 8-9, 594, 1200, 2011, 3440
bentazone 38
bromoxynil 7, 19, 108
carbetamide 3029
chlorotoluron 5, 12, 108, 1551, 1554, 3029
chlorsulfuron 10, 3029
clofop 7
cyanazine 12
cycloxydim 284, 1631
diclofop 3029
diclofop-methyl 108
diflufenican 1568, 2009
EPTC 2671
haloxyfop 38
ioxynil 7, 19, 108
isoproturon 5, 19, 108, 1551, 1568, 3029
isoxaben 1554
linuron 12, 14, 3029
mecoprop 7
methabenzthiazuron 3029
metoxuron 3029
metsulfuron 10
monolinuron 12
orbencarb 14
paraquat 4
pendimethalin 12, 3029
propyzamide 3029
sethoxydim 38
terbuthylazine 2671
terbutryn 2671, 3029
tri-allate 108, 3029
trifluralin 12, 3029
chemical vs. cultural weed control 3029
cultural control
burning 3029
cultivation 4
cutting 7, 3637
direct sowing 3029
hoeing 2671
manual weed control 3637
ploughing 3029
herbicide application
physiology 2880, 3122
resistance 107
ecology
competition 1817, 3637
distribution 165, 2815
seeds
depth of burial 2135
dormancy 121
germination
light 121
stimulants 121
temperature 121
populations 448
soils 448
spread 448
surveys 2135
Alopecurus pratensis 1655
Alternanthera ficoidea 740, 2094
Alternanthera philoxeroides 2503, 2538, 2755
Alternanthera sessilis 2526
Alternaria 3686
Alysicarpus rugosus 898
Alyssum 2790
Amaranthus
bioassays 2875
biology, taxonomy 1428
control 367, 3511
biological control, insects 3353
chemical control 364, 1228, 1231, 3470, 3544

Amaranthus* *cont.
control *cont.*
chemical control *cont.*
acifluorfen 1603
alachlor 1432
atrazine 310, 2105
benfluralin 2090
bentazone 1603, 2105
bromoxynil 1432
butralin 2090
chloramben 1603
2,4-D 1432
dicamba 310, 1432
EPTC 2090
fomesafen 1603
glyphosate 2105
haloxyfop 3520
linuron 341
metribuzin 341, 1603
monolinuron 2090
MSMA 3520
neburon 2090
norflurazon 3520
pendimethalin 3520
prodiamine 678
sethoxydim 3520
simazine 2105
terbumeton 2105
terbuthylazine 2105
trifluralin 1603, 2097, 3520
cultural control, solarization 3026
herbicide application, resistance 1121
management, rotations 3199
ecology
distribution 1428, 3626
soils 2521
synecology 2521
seeds
contamination 724
soils 3026
Amaranthus albus 1428, 2143, 2805, 3283, 3530
Amaranthus asckendens 3353
Amaranthus blitoides 1428, 2143, 3530, 3613
Amaranthus blitum 407, 1428
Amaranthus bouchonii 1428, 2142
Amaranthus caudatus 2875, 3353
Amaranthus chlorostachys 891, 3530
Amaranthus crispus 1643
Amaranthus dubius 36, 2515, 2819, 3642
Amaranthus emarginatus 1428
Amaranthus graecizans 1428
Amaranthus hybridus 314, 638, 903, 1301, 1761, 3171, 3322, 3613
Amaranthus lividus 220, 386, 443, 2143
Amaranthus palmeri 3624
Amaranthus peneculatus 3353
Amaranthus polygamus 846
Amaranthus powellii 30, 761, 1053, 1428
Amaranthus retroflexus 1645
biology 477
development 3632
exudates 1867
flowering 3613
genetics 1845
life cycle 2785, 3613
phenotypes 1845
photosynthesis 2266
physiology 1845, 2266
taxonomy 1428, 2143
vegetative propagation 1483
control
chemical control 335, 925, 1219, 1581, 1601, 2093, 2390, 2403, 2646, 2714, 2733, 3613
acifluorfen 339-340, 342
alachlor 30, 39, 329, 336, 1271
atrazine 312, 761, 891, 2036, 3548
benfluralin 3549
bentazone 39, 339-340
bromoxynil 30
butralin 3548
butylate 1643
carbetamide 3548
chloramben 386, 2988
chloridazon 630
chlorpropham 386
chlorthal-dimethyl 662

Amaranthus retroflexus* *cont.
control *cont.*
chemical control *cont.*
cinmethylin 329, 1688
cyanazine 312, 2980
2,4-D 30, 1562, 2036
2,4-DB 1244
dicamba 30
dichlobenil 405
diclofop 1271
dimefuron 3548
dinoseb 2980
dinoterb 3548
diphenamid 662
diuron 405, 672
EPTC 1271, 3549
ethalfluralin 3548
ethofumesate 630
fluazifop 337, 1271
flurochloridone 1271
fomesafen 649
haloxyfop 336-337
imazaquin 336, 340, 2988
lenacil 630
linuron 39, 339-340, 342, 1271, 2988
metazachlor 405, 1271
metobromuron 1271
metolachlor 336-337, 3513, 3548
metribuzin 329, 339, 342, 1244, 1592, 2988, 3513
monolinuron 3548
napropamide 662
neburon 3548
oryzalin 672, 1244
oxyfluorfen 2988
pendimethalin 336, 405, 1271, 3548
phenmedipham 630
prometryn 1643, 2980
propachlor 3548
propham 630
proximpham 630
quizalofop 1271
sethoxydim 39, 337, 1271
simazine 405, 672
terbutryn 891
thiobencarb 386
tridiphane 312
trifluralin 39, 1300, 1643
cultural control 1562
flaming 39
hoeing 39
economics 638
herbicide application 638
resistance 44, 761, 1053, 1055 1432
tolerance 1055
management 2804, 3284
mowing 1629
shading 358
minimum tillage 1562
ecology 3613
allelopathy 204, 2174
biotypes 30, 761, 1053, 2266
colonizing ability 1385, 2202
competition 741, 1034, 1813, 2174, 2785, 2804
distribution 1428, 2194, 2437, 2815
habitats 477
nutrient removal 1813
nutrient uptake 1034
phenology 2785
seedling emergence 477
spread 2202
temperature 2495
weed associations 2183
hosts of plant diseases 2228
hosts of plant pests 1086, 1867, 3672
parasitic weeds 504
poisonous weeds 3036
seeds
dormancy 1053
germination
light 442, 1053, 3279
moisture 3284
temperature 1053, 2785, 3284, 3606
production 3632
soils 477
utilization 844

Amaranthus sinensis 3353
Amaranthus spinosus 1868, 2395
Amaranthus viridis 35, 2218, 2976
Amberboa moschata 3094
Ambrosia 1228, 1781
Ambrosia artemisiifolia 195, 312, 333, 339-340, 342-343, 662, 679, 705, 1092, 1110, 1178, 1645, 1761, 2202, 2248, 2479, 2692, 2734, 2985, 3113, 3219, 3352, 3708
Ambrosia elatior 3513, 3528
Ambrosia grayi 1822
Ambrosia psilostachya 1042, 3583
Ambrosia tenuifolia 3235
Ambrosia tomentosa 2419
Ambrosia trifida 333, 2825-2826, 2842
Amelanchier 2747
Amelanchier alnifolia 657, 2722
Ametridione
physiology
absorption 3725
translocation 3725
usage, crops, cereals 3725
Ametryn
analytical methods
immunoassay 2289
immunofluorescence 1476
chemistry, structure activity relationships 1124
physiology
cytology, chloroplasts 1476
metabolism
amino acids 2707
carbohydrates 2707
carotenoids 2707
enzymes 1124, 1476
proteins 2707
residues
plant residues 3251
soils 3251
soils
microbial degradation 2940
microorganisms, fungi 2940
usage
crops
cereals 2039, 2041, 2373
fibre plants 2122
medicinal herbs 973
plantation crops 76, 78, 689, 966, 2112, 3250, 3252
root crops 50, 636, 2707
damage 689
economics 78
persistence 3251
Amide, α-chloroacetic-*N*-(3,5,5-trimethyl-cyclo-hexan-1-yl)-*N*-isopropyl- 2010, 2646
Amidochlor 3490, 3492
Aminophos 1284
Amitrole
physiology
degradation 2575
metabolism 2575
ammonia 220
translocation 213, 2573
uptake 2573
soils
adsorption 3760
cation exchange 3760
degradation 3760
leaching 3760
microorganisms, bacteria 2320
nitrogen fixation 2939
types 3760
vaporization 3760
toxicology
insects 3392
tests 3392
usage
crops
forests 413, 2450, 3579
grasslands 3541
legumes 3541
rangelands 1686
small fruits 659, 2736
tree fruits 404, 409, 659, 965
damage 3541
nodulation 2939
non-crop weed control 114
weeds 706

Ammannia 35
Ammannia baccifera 321, 2682
Ammi majus 1268, 2242
Ammonium sulphamate, usage, crops, forests 1741
Amorpha fruticosa 2753, 3315
Ampelamus albidus 295
Amsinckia 1841, 3346, 3592
Amsinckia calycina 2136
Amsinckia gloriosa 3346
Amsinckia intermedia 1573, 3346
Amsinckia lycopsoides 3346
Anacharis canadensis (*see Elodea canadensis*)
Anagallis arvensis 16, 345, 950, 1207, 1220, 1268, 1692
Andropogon annulatus 2845
Andropogon gayanus 2760
Andropogon gerardii 3237
Andropogon saccharoides 2768
Andropogon scoparius (*see Schizachyrium scoparium*)
Andropogon virginicus 2178
Anilide, *N*,β-methoxyethylchloroacetate- 3365
Anilide, 2-(2-naphthoxy)propion- 3358, 3377
Anilides 231
Anilides, acet- 2043
Aniline, *N*-(2-chloro-6-fluorobenzyl)-*N*-ethyl-4-trifluoromethyl-2,6-dinitro- 237
Aniline, 3,4-dichloro 2292
Aniline, 2,5-diethyl- 2612
Anilines, dinitro- 496, 1496
Anilofos, usage, aquatic weeds 425
Anisidide, *N*,β-methoxyethylchloroacetate- 3365
Anoda cristata 342, 2148, 3074
Anoda cristata **var.** *brachycantha* 2148
Anthemis 1632, 1641
Anthemis arvensis 1579, 2815, 2999
Anthemis cotula 300, 724, 1858
Anthocleista 77
Anthoxanthum odoratum 60
Anthriscus cancalis 3289
Anthriscus caucalis 477
Anthriscus sylvestris 2021
Antirrhinum majus 1058
Apera interrupta 1762
Apera spica-venti
biology 2656
mycorrhizas 1156
control
chemical control
bifenox 24
chlorotoluron 24, 603, 1554, 2030
chlorsulfuron 603, 2030
cycloxydim 1631
2,4-D 877, 2656
dicamba 2656
diquat 2999
ioxynil 24
isoproturon 603, 2030, 2648
isoxaben 1554
MCPA 2030
mecoprop 24, 2030
methabenzthiazuron 1821, 2030, 2032
metsulfuron 2648
nitrofen 26
pendimethalin 24
prometryn 26
simazine 26, 877
cultural control
cultivation 1192
discing 1192
rotary cultivation 1192
management, fertilizers 2656
minimum tillage 1192
species shift 1821
ecology
competition 469, 737-738, 2656
distribution 2815
soils 2781
weed associations 2183
hosts of plant pests 2239
seeds
contamination 737-738, 3048
populations 2781
Aphanes arvensis 1579, 2024
Apiaceae 3289
Apocynum cannabinum 2885
Apparatus, growth chambers 702
Apples
herbicide application
damage 406
pests 3248
soils 684
tolerance 682
yields 684
weed control
chemical control 404, 684, 1321, 2324, 3022-3023
alloxydim 2737
atrazine 408, 761
bentazone 407
bromacil 683
2,4-D 677
dicamba 681
dichlobenil 405
diuron 405
EPTC 407
fluazifop 2737, 3543
glufosinate 679
glyphosate 679, 2737
lenacil 680
MCPA 681
metazachlor 405, 407
metribuzin 680
oryzalin 679
oxyfluorfen 683
paraquat 679
pendimethalin 405, 407, 679
propazine 408
propyzamide 680
simazine 405, 407-408, 679-680, 683, 961, 2737
terbumeton 680
terbuthylazine 680
triclopyr 677
cultural control 684
cultivation 3023
mowing 3023
management 158, 3023
weeds
competition 158
seeds 761
surveys 2204
Application
aerial application 695, 982, 1164, 1199, 1346, 1349, 1985-1986, 2325, 2635, 2978, 3456
containers 821
frilling 2748
granules 1150, 1981, 2946, 3777
impregnation 1616, 2634, 2722, 3780
incorporation 344, 638, 886, 925, 927, 1559, 1626, 2335, 2627
incorporators 1254, 1980
irrigation water 249, 612, 633, 866, 888, 2331, 2978, 3166, 3172, 3403
placement 2627
protective clothing 839, 2920, 3754
ringing 95
rope wick 937, 1616, 2121, 2981
safety 262, 637, 821, 2920
sprayers 252, 838, 3404-3405
atomizers 257, 2632-2633, 3167, 3174
automatic control 3175
booms 569, 1982, 1986, 2629-2631, 2726, 3779
calibration 2978
deposition 3174
experimental equipment 1159, 1165, 1974, 1982, 2332
injection 3175
knapsack sprayers 250, 834, 3778
maintenance 1503
metering 1164
nozzles 947, 1524, 1652, 1974, 1984, 1986, 2324, 2333-2334, 2393, 2605, 2622, 2626, 2630, 2633, 2726, 2941, 3168, 3174, 3546, 3774, 3779
patternators 1974
portable sprayers 3406
recirculatory sprayers 254, 1165
small plot sprayers 251, 3778
Application *cont.*
sprayers *cont.*
spinning discs 1652, 2333
testing 1985, 1987, 2941, 3168, 3173
spraying 252, 3775
band spraying 87, 1160, 1617, 1984, 2442
canopy penetration 2726, 3168, 3174
carriers 255
controlled droplet application 42, 256-257, 567, 836, 1602, 1743, 1983, 1986, 2333, 2633, 3167, 3404, 3406
deposition 569, 832, 1976, 1985-1986, 2325, 3168-3169, 3406, 3779
directed spraying 2324
drift 47, 238, 836, 1294, 1485, 1976, 1979, 1986, 2325, 2999, 3174
droplet size 2624, 2626, 2635
droplet studies 42, 567, 695, 833, 1887, 1975, 2334, 2635
electrostatic spraying 834, 836, 2326, 2622, 2628, 3168-3170, 3173
high volume spraying 567
invert emulsions 2464
low volume spraying 115, 253, 255-256, 567, 592, 699, 831, 833, 1617, 1624, 1691, 3173, 3583
retention 434, 568, 991
spot spraying 250, 1981, 3518
sub-surface application 606
ultra-low volume spraying 253, 255, 833
wind effects 1978
stump spraying 3256, 3582
tree injection 95, 2442, 3256
wick bar 327
wiper applicators 58, 250, 258, 347, 382, 1616, 1681
Apricots 2554, 3573
Aquatic weeds 101, 106, 133, 145, 153, 160, 163, 170-171, 173, 175, 177, 180-181, 197, 261, 416, 426, 450, 453, 466, 484, 489, 497, 698, 704, 733-734, 736, 759, 762, 766-770, 785-786, 801, 806, 859, 985, 1162, 1345, 1361, 1375, 1380, 1389, 1403, 1419, 1441, 1754, 1773, 1777, 1788, 1801, 1832-1834, 1838, 1850, 1855, 2138, 2156-2157, 2164, 2252, 2453-2456, 2478, 2486, 2498-2500, 2503, 2538, 2541-2542, 2644, 2758-2759, 2784, 2799, 2820, 2848-2849, 2863, 2955, 2958, 3065, 3071, 3153, 3269, 3603, 3631, 3674, 3794
Arabidopsis thaliana 996, 1156, 1854, 1892, 3279
Arbutus menziesii 1738
Arceuthobium
biology, water relations 1861
control, biological control, insects 782
Arceuthobium abietinum 1446
Arceuthobium abietis-religiosae 1782
Arceuthobium americanum 1782, 1861, 2834
Arceuthobium campylopodum 1060
Arceuthobium divaricatum 1782
Arceuthobium gilli **subsp.** *nigrum* 1782
Arceuthobium globosum 1782
Arceuthobium oxycedri 2221
Arceuthobium pendens 1782
Arceuthobium rubrum 1782
Arceuthobium strictum 1782
Arceuthobium tsugense 1060
Arceuthobium vaginatum 1860, 2835
Arceuthobium vaginatum **subsp.** *cryptopodium* 1782
Arceuthobium vaginatum **subsp.** *durangense* 1782
Arceuthobium vaginatum **subsp.** *vaginatum* 1782

Arceuthobium verticilliflorum 1782
Arctium lappa 2194
Arctium minus 3090
Arctostaphylos 3260
Arctostaphylos columbiana 1738
Arctostaphylos glandulosa* var. *zacaensis 1108
Arctostaphylos patula 1740, 2519
Arctostaphylos viscida 1738
Arctotheca calendula 2510
Arenaria serpyllifolia 477, 996, 2488
Argemone mexicana 1836, 2409
Argentina
bibliographies 858
herbicides, recommendations 2963
Arid zones, weed control, reviews 929
Aristida ramosa 2725
Arnoseris minima 1047
Arrhenatherum elatius 121, 591
Artemisia 167, 1781, 2534
Artemisia absinthium 1385
Artemisia atlantica* var. *maroccana 3044
Artemisia austriaca 1383
Artemisia californica 1683
Artemisia dracunculoides 793
Artemisia dracunculus 3016
Artemisia flahaultii 3044
Artemisia ifranensis 3044
Artemisia mesatlantica 3044
Artemisia negrei 3044
Artemisia parviflora 1404, 3648
Artemisia princeps 56
Artemisia scoparia 1404
Artemisia tridentata 61, 136, 148, 1444, 1994, 2162, 3679
Artemisia vestita 1404
Artemisia vulgaris 481, 793, 837, 1109, 1404, 3249, 3285, 3648
Artichokes 2432
Arundinella hirta 3076
Asclepias perennis 1848
Asclepias speciosa 1995
Asclepias syriaca 125, 711, 1888, 2483, 3068, 3276, 3598, 3620, 3658-3659
Asclepias tuberosa 3658
Asclepias tuberosa* subsp. *rolfsii 1848
Asclepias viridis 3340
Asia
flora 2790
weed control, aquatic weeds 102
Asparagus 1015, 1285-1287, 1415, 2726
Asphodelus fistulosus 16
Asphodelus tenuifolius 1826, 3278
Aster 195, 402
Aster macrophyllus 2745
Aster pilosus 2479
Aster umbellatus 2443
Asteraceae 1009
Astragalus 119, 3037
Astragalus lentiginosus 3034
Astragalus palenae 119
Asulam
formulations
emulsifiable concentrates 247
oil miscible concentrates 247
physiology
absorption 2883, 3127
degradation 2575
metabolism 2575
waxes 2883
mode of action 1122
penetration 2883
photosynthesis 229
selection 2269
translocation 2573, 2883, 3127
uptake 2573
soils, microorganisms 3002
usage
additives 1346
application 3002
equipment 250
methods 250
compatibility, herbicides 3127
crops
cereals 35
culinary herbs 974
grasslands 58, 1650, 1657, 1677, 2076, 3002
lawns and sports turf 1312
legumes 2383
plantation crops 2110, 3250
Asulam *cont.*
usage *cont.*
crops *cont.*
rangelands 60
vegetables 379, 383-385, 950, 2086
damage 60, 2383
mixtures 3002
sward renovation 1678, 2075
wetters 2883
yields 60
Asystasia chelomeides 3709
Asystasia coromandeliana 3709
Asystasia intrusa 1718, 3709
Atraton
chemistry, structure activity relationships 1124
physiology, metabolism, enzymes 1124
Atrazine
analytical methods
bioassays 816, 1146, 1218, 2914, 3385
chromatography 1929
gas chromatography 1509, 2911, 3749
gas liquid chromatography 1146, 1933
immunoassay 2289
immunofluorescence 1476
mass spectrometry 2911
chemistry, structure activity relationships 1124
crops, fodder crops 559
formulations
aqueous concentrates 2623
flowables 2623, 3776
wettable powders 2623
herbicide resistant weeds 3362
physiology
cytology 3363
binding site 212, 525, 2582
chloroplasts 212, 525, 1476, 1891, 2582, 3133
protoplasts 2897
degradation 1113
genetics 218, 525, 1845, 3136, 3363-3364
metabolism 2574
amino acids 287
chlorophyll 223, 525, 1113
enzymes 223-224, 287, 1113, 1124, 1127, 1476, 1845, 3138, 3376
fatty acids 1138
nutrients 408
peptides 287
mode of action 521, 1121, 1432, 2582
peptides 1915
photosynthesis 227-228, 1113, 1121, 1474, 1891, 2897, 2914, 3141, 3385
selection 2270
stomata 3141
translocation 1474, 2884, 3141
uptake 1113, 1474
properties, synergism 1127
residues
atmosphere 1947
groundwater 2671, 3752
plant residues 1216, 1585, 1929, 2674, 3251
soils 816, 1146, 1216, 1218, 1929, 2674, 3151, 3251
water 565, 1485, 1929, 2290, 2911, 3151, 3749
soils
adsorption 3760-3762
cation exchange 3760
degradation 1505, 1509, 2317, 2599, 3396, 3760
fertility 2933
irrigation 866
leaching 866, 1485, 2317, 3760
mesofauna 1158
microbial activities 2374
microbial degradation 244, 1585, 1962
microorganisms
algae 2312
bacteria 244, 2321
Atrazine *cont.*
soils *cont.*
microorganisms *cont.*
mycorrhizas 1156
moisture 1962
movement 1586, 2931
organic matter 3396
persistence 1509, 1585, 2599
pH 1962
rain 2931
runoff 1485, 2911, 2931, 3162, 3764
types 1962, 2933, 3396, 3760
vaporization 1509, 3760
water composition and quality 408, 565
toxicology
aquatic environment 2293
aquatic organisms 2293
contaminants 2290
disposal 552, 1505
fishes 2293
insects 1158
soil mesofauna 559, 1158
usage
antagonism 223
application, methods 1523, 2333, 2624, 3776
climate 3776
compatibility
fertilizers 370, 2329
fungicides 1962
herbicides 2657, 3138, 3573
insecticides 1962
crops
cereals 29, 264, 298, 312-313, 318-319, 613, 761, 866, 885-886, 888-891, 894, 1211-1213, 1216, 1220, 1583, 1585-1586, 1590, 1592, 1607, 2034, 2036, 2038-2039, 2041, 2371, 2374, 2459, 2623-2624, 2657, 2670, 2672, 2676, 2904, 2974, 3141, 3205, 3208, 3211, 3304, 3469, 3472, 3475, 3479-3480
fallow 2599
fibre plants 1211, 1638, 2122
fodder crops 1582, 1599, 2973
forests 411, 2118, 2440, 2450, 3024
grasslands 370, 2414
lawns and sports turf 1701, 2103
legumes 1211, 3217, 3548
medicinal herbs 973
oil plants 1816
plantation crops 76, 689, 928
rangelands 3385
root crops 3191
small fruits 676, 2105, 3573
tree fruits 404, 676, 688, 761, 3573
vegetables 385, 1015
damage 689, 885, 1582, 1619, 2038, 2414, 2973, 3480, 3548
economics 264, 2118
energy conservation 1586
minimum tillage 2038
mixtures 866, 1915, 1962, 3573
no-tillage 318, 2038, 3162
nodulation 2321
non-crop weed control 114, 2465, 2751, 2765, 2767
persistence 1218, 3217, 3251
rates 1582
residual effects 74, 1582
residues 1216
resistance 3734
resistant weeds 1474
safeners 3480
selectivity 3548
synergism 224, 2904, 3573
tissue culture 2581
tolerance 1055
yields 2038, 2973, 3479-3480
Atriplex 3544
Atriplex gmelinii 2795
Atriplex patula 363, 719, 1601, 2794, 3597

Aubergines 948, 1071, 1687, 3080, 3241, 3544
Australia
flora 1022, 1779, 2491
herbicides, reviews 2645
New South Wales, flora 2957
Queensland
flora 3799
reports 3190
reports 273
weed control
aquatic weeds 2538
biological control 2560, 2858, 2947
economics 2560, 2644, 3785
organization of research 2644
recommendations 1550
reviews 619, 1545, 2644
surveys 2953
Avena
control
chemical control 9
2,4-D 881
diclofop 881
management, shading 2517
reviews 1823
species shift 881
ecology
climate 1049
competition 2168, 2517
distribution 1823, 3626
habitats 1049
soils 2517
Avena barbata 1575
Avena fatua
bioassays 1108
biology
breeding 141
dormancy 998
interspecific hybridization 141
introductions 3191
morphology 998, 2120
phenotypes 3362
physiology 141, 998-999, 1811, 2594
control
chemical control 8, 348, 1200, 1420, 1570, 1575, 1601, 1633, 2120, 2654, 2714, 3007, 3464
alloxydim 48, 2061
atrazine 885
barban 567, 1578
bentazone 48
benzoylprop-ethyl 1135
bromoxynil 1560, 2658, 2966
carbetamide 2684-2685
chlorfenprop-methyl 1135
chlorotoluron 12
cyanazine 12
cycloxydim 284, 1631
2,4-D 756, 2369
diclofop 567, 1560, 1578, 2365, 2658, 2966
difenzoquat 567, 593, 1578, 2658
dimefuron 2684-2685
dinoseb 2684
dinoterb 2685
EPTC 2671
fenoxaprop 1672, 2658
flamprop 1135, 2369, 3203
fluazifop 48, 2061, 2594, 3543
flurochloridone 48, 2684
glyphosate 2651
haloxyfop 1672, 2651
isoproturon 2684
linuron 12, 2685
MCPA 756, 1560, 2658, 2966
metribuzin 48
monolinuron 12
neburon 2685
pendimethalin 12, 2685
quizalofop 1672, 2685
sethoxydim 1669, 1672, 2061, 2594
terbuthylazine 2671
terbutryn 2671
tri-allate 1559, 1578
trifluralin 12, 2684
cultural control 1420, 2120
burning 872
cultivation 1206
Avena fatua *cont.*
control *cont.*
cultural control *cont.*
hoeing 2671
mulching 1110
economics 3179
herbicide application, physiology 1135-1136, 2260, 2880
management
cropping systems 3608
fallow systems 3608
fertilizers 872, 1206
irrigation 872
rotations 872
recommendations 1575
ecology
allelopathy 3061
competition 872, 1034, 1809, 1811, 1816, 2175, 2508, 3203
distribution 756, 872, 1841, 2189, 2192-2193, 2196, 2199, 2815
fertilizers 2193
habitats 486, 1420
nutrient removal 1813
nutrient uptake 1034
seasonal variation 164, 1420
spread 1420, 1826
water stress 1811
weed associations 1420
seeds
buried seeds 3608
climate 164
contamination 2078, 2120, 2136, 2337
depth of burial 122, 1000
dormancy 121, 447, 998-999, 1763, 2120, 2471, 2876, 3609-3610
germination 720, 998, 2120
inhibitors 3610
light 121, 1763
stimulants 121, 999, 2876
temperature 121, 717, 1763, 2876, 3609
growth regulators 998, 3610
population 1000
production 3609
soils 3608
viability 122, 1000, 3608
water relations 3609
Avena ludoviciana *(see Avena sterilis* subsp. *ludoviciana)*
Avena macrocarpa 1575
Avena sativa* × *Avena fatua 141
Avena sterilis 140, 1120, 3628
Avena sterilis* subsp. *ludoviciana 121-122, 140, 1575, 1837, 2120, 2352, 2413, 2815, 3278, 3454
Axonopus compressus 1718, 2416, 2531
Azalea 391
Azalea pontica 2769
Azide, sodium 526
Aziprotryne
physiology
metabolism
nitrate nitrogen 3010
nutrients 3010
selection 2270
uptake 3010
usage
crops
fodder crops 2997
forests 2113
oil plants 3230
vegetables 3544
quality 2997
yields 2997, 3230
Azolla caroliniana 2799
Azolla filiculoides 1019
Azolla mexicana 1019
Azolla pinnata 1019, 1533, 2048
BA 1345, 1459, 1888
Baccharis halimifolia 3091, 3354
Bahrain, flora 1776
Ballota nigra 477
Bangladesh, flora 764-765, 1390
Barban
physiology, photosynthesis 229
usage
application, methods 567
compatibility, herbicides 2660
crops, grasslands 937
Barban *cont.*
usage *cont.*
diseases 2412
weeds 1000
Barbarea vulgaris 300, 477, 1629
Barley
bioassays 3147
herbicide application
acid rain 608, 1185
air pollution 304
breeding for herbicide resistance 1122, 2269, 3367
climate 1161
damage 13, 304, 609-610, 1161, 1194, 3433
direct sowing 3452
diseases 1193-1194
economics 1556
growth stages 1208
interactions 25
lodging 609
morphology 609
mycorrhizas 1156
nutrient uptake 25
nutritive value 610
physiology 23, 205, 523, 533, 608, 799, 804, 1134-1136, 1475, 2882, 3140, 3366
potassium 3140
proteins 2359
quality 297
residual effects 816, 875, 1546
residues 816, 3144
safeners 2009-2010
selectivity 23, 1209, 2010, 2646, 3449
soil fertility 3450
susceptibility 205, 875, 1905, 1972
tolerance 9, 25, 205, 610, 817, 884, 1905, 2011, 2368, 2660, 3451
varietal susceptibility 13, 15, 205, 609, 876, 2368
yields 13, 25, 883, 1193, 1557, 1578, 1810, 2359, 2654, 3447-3448, 3450-3451
weed control
chemical control 8, 275, 289, 861, 876, 1556, 2012, 3440, 3448, 3464
atrazine 1156
barban 1000, 1578
bentazone 1161, 3197
bifenox 24, 596
bromofenoxim 592
bromoxynil 7, 11, 296, 592, 1557, 1560, 3461-3463
chloridazon 1156
chlorotoluron 12, 14, 24, 592, 596, 1554
chlorsulfuron 2367, 3462
clofop 7
clopyralid 305, 1557
cyanazine 12, 3441
2,4-D 22, 296, 305, 1161, 1208, 2020, 3195
2,4-DB 371
dicamba 25, 296, 305, 592, 1161, 2020, 2666, 3195
dichlorprop 3447
diclofop 1000, 1560, 1578, 2360
difenzoquat 593, 1578
diflufenican 1568, 2009
dinoseb 1577
flurenol 592, 2666
fluroxypyr 11, 3463
glyphosate 305, 837, 3452
ioxynil 7, 11, 24, 3461-3462
isoproturon 6, 23, 594, 1568, 1577
isoxaben 595, 1554, 2024, 3441
linuron 12, 594-595, 3195
MCPA 592, 1557, 1560, 2020, 2666, 3195, 3197
MCPB 371
mecoprop 7, 24, 592, 1577, 2666, 3447, 3461-3462
methabenzthiazuron 594, 1156
metsulfuron 1558, 3462
molinate 2020
monolinuron 12
neburon 2360

Barley *cont.*
weed control *cont.*
chemical control *cont.*
paraquat 4
pendimethalin 6, 12, 24, 2360, 3461
prometryn 3195
propanil 2020
simazine 3195
terbuthylazine 592
terbutryn 594
thiameturon 3462
tri-allate 594, 1000, 1559, 1578
trifluralin 12, 594-595
cultural control 7, 2666
cultivation 4, 22, 2020
ploughing 2025, 2653
rotary cultivation 2025
economics 882, 1170, 1630, 1810
integrated control 2649
management 2666
cropping systems 1000
fallow systems 1000
minimum tillage 3198, 3206
weeds
allelopathy 2169
competition 4, 154, 737-738, 1034, 1810-1811, 2169, 2368, 3298, 3301, 3307, 3461, 3637
contamination 737-738
crop losses 737-738
distribution 751
hosts of plant diseases 2556
parasitic weeds 3328
seeds 1000, 3048, 3608
surveys 1049, 2183, 2187, 3650
water stress 1811
yields 4, 154, 737, 1043, 1810, 1824, 2019, 2024, 3637
Barley (weed) 664, 2229, 3611
Beetroots 3008
weed control
chemical control
ethofumesate 1284
fluazifop 1284
phenmedipham 1284
Begonia 390
Belgium
flora 1832-1834
reports 274
Benazolin
analytical methods, gas chromatography 1923
physiology
adsorption 1752
translocation 1752
soils, fertility 3450
usage
additives 1752
climate 3593
rain 3593
crops
cereals 878, 3450
forests 1733
grasslands 3538
oil plants 3230, 3522, 3525
root crops 362
vegetables 1284
damage 1733
diseases 2412
mixtures 1752
yields 3230, 3450
Benfluralin
analytical methods, gas liquid chromatography 237
usage
application, methods 249, 3172
crops
fodder crops 642
lawns and sports turf 393, 395-397, 952
legumes 910, 2082, 2089-2090, 3226, 3414, 3503, 3506, 3549-3550
oil plants 3527
vegetables 383-385, 3544
damage 2089-2090, 3506, 3549
economics 3414
residual effects 1547
selectivity 3549
soils 3549
Benfluralin *cont.*
usage *cont.*
weeds 428
Bensulfuron
physiology
degradation 3214
metabolism
amino acids 3378
enzymes 3378
mode of action 3214
usage
crops, cereals 1596
mixtures 3214
Bensulide
formulations, granules 3245
usage
crops, lawns and sports turf 393, 396-397, 656, 952, 3245
damage 952
safeners 897
weeds 428
Bentazone
analytical methods
gas chromatography 1923
polarography 1938
thin layer chromatography 547
physiology
absorption 3171
genetics 3135
metabolism
amino acids 3135
enzymes 232
nutrients 232
mode of action 232, 1432
photosynthesis 232
translocation 3171
residues
plant residues 934
soils 547
soils
mesofauna 3772
moisture 1161
toxicology, arthropods 3772
usage
additives 1975, 2989, 3171, 3218, 3220
antagonism 63, 2984
application, methods 2333
compatibility
fertilizers 2329, 2989
herbicides 2692
crops
cereals 29, 320, 1161, 1225-1226, 1593, 1607, 2378, 2678, 3197, 3470, 3483
fibre plants 363, 919
fodder crops 934, 2969
forests 80
grasslands 1607, 2072, 2074, 2415
legumes 38-39, 339-340, 620, 624-626, 1229, 1231, 1235, 1240, 1242, 1247, 1251-1252, 1455, 1603-1604, 1671, 2050, 2053, 2383, 2386-2388, 2390, 2459, 2688, 2695, 2699, 2969, 2983, 2986, 2989-2992, 3197, 3218, 3475, 3495, 3499, 3508, 3552
medicinal herbs 1273
ornamentals 388
root crops 48-49, 353
small fruits 2105
tree fruits 407
vegetables 63, 905, 2086, 2094
damage 1251, 1273, 2383, 3483
diseases 1454
economics 2388
fertilizers 3220
interactions 1454
mixtures 1273, 2074, 2459, 2699, 2983, 3218, 3274
pests 3772
rain 2390, 2943, 2990
selectivity 3552
synergism 2074
weeds 708, 989, 2460
yields 1252, 1262, 2388, 2969, 2991, 3508
Benthiocarb
usage
crops, cereals 898, 1593
mixtures 3358
Benzeneacetonitrile, α-(cyanomethoxy)-imino- 1464
Benzeneacetonitrile, α-(1,3-dioxolan-2-yl-methoxy)-imino- 1464
Benzimidazoles, 1,2,3,4-tetrahydro-1,3,5-triazino[1,2-*a*]- 1916
Benzoate, 1-(carboethoxy)ethyl 5-[2'-chloro-4'-(trifluoromethyl)phenoxy]-2-nitro- 40, 45, 338, 632, 649, 654, 1224, 1229, 1231, 1246, 1262, 1702, 2011, 2042, 2093, 2355, 2390, 2991, 3239, 3507
Benzoate, 2-ethoxy-2-oxoethyl-5-[2-chloro-4-(trifluoromethyl)phenoxy]- 333
Benzoate, ethyl-2-([(4-chloro-6-methoxypyrimidin-2-yl)amino-carbonyl]aminosulphonyl)- 1309
Benzoate, ethyl-2-([(4-chloro-6-methoxypyrimidin-2-yl)amino-carbonyl]aminosulphonyl)- 333-335, 339-340, 520, 1228, 1230, 1238-1239, 1246, 1350, 1478, 2054, 2122, 2386, 2460, 2668, 2982, 2988, 3285
Benzoate, methyl-2-(aminosulphonyl)- 617
Benzoate, methyl-2-[(4,6-dimethoxypyrimidin-2-yl)aminosulphonylmethyl]- 320
Benzoate, methyl 2-[3-(4-methoxy-6-methyl-1,3,5-triazin-2-yl)-3-methylureidosulphonyl]- 2650, 2658, 2665
Benzonitrile, 3-nitro-4-hydroxy-5-bromo- 2899
Benzoylprop-ethyl
physiology
translocation 1135
uptake 1135
usage, crops, cereals 15, 1135
Berberis vulgaris 3693
Beta macrocarpa 347
Beta maritima 347
Betula 90-91, 412, 2179
Betula alleghaniensis 89
Betula paprifera 89
Betula pendula 3004-3005, 3243, 3582
Betula populifolia 89, 2851
Betula pubescens 3004-3005, 3582
Bibliographies
Argentina 858
Cuscuta 2838
herbicides, adjuvants 1163, 2625
Phaseolus vulgaris 3431
Southeast Asian Weed Information Center 3801
Bidens bipinnata 1046
Bidens pilosa 1175, 2526, 2576, 2811-2812, 3604, 3629
Bifenox
usage
application, equipment 3173
crops
cereals 13, 24, 300, 589, 596, 878, 1619, 2667, 3442, 3483
forests 80, 976
oil plants 3530
damage 24, 3483
Bifora radians 2193, 2815
Bilanafos
physiology
metabolism
amino acids 233
ammonia 220
enzymes 233
mode of action 220
Bilderdykia convolvulus
control
chemical control 363, 1220, 1420, 1570, 1601, 2058, 2654, 3652
acifluorfen 1603, 2734
alachlor 1269
atrazine 2672
benazolin 3525
benfluralin 3549
bentazone 1603
bromofenoxim 2672

Bilderdykia convolvulus *cont.*
control *cont.*
chemical control *cont.*
bromoxynil 11, 1560, 2031, 2652, 2966
butylate 1643
chloramben 1603
chloridazon 2057
chlorsulfuron 883, 2031, 2367, 2652
clopyralid 2652, 2662, 3525
cyanazine 2672, 2980
cycloate 2057
2,4-D 756, 2031, 2652, 2662
2,4-DB 2969
dicamba 2031, 2652
diclofop 1560, 2966
dinoseb 2980
EPTC 3549
fluorodifen 63
flurochloridone 1269, 1636
fluroxypyr 11, 2662
fomesafen 63, 1603
glyphosate 2734
hexazinone 2734
ioxynil 11
lenacil 2057
linuron 63, 1269
MCPA 756, 1560, 2031, 2662, 2966
metobromuron 1269
metolachlor 1269, 2057, 2672
metribuzin 1603, 2734
metsulfuron 2648
monolinuron 63, 2061
oxyfluorfen 654, 2734
picloram 2662
prometryn 1643, 2980
sethoxydim 2734
terbacil 2734
terbuthylazine 2672
trifluralin 1603, 1643
cultural control 1420
ecology
climate 1049
competition 3298
distribution 756, 2193, 2196, 2199, 2815, 3652
habitats 486, 1049, 1420
nutrient uptake 3298
seasonal variation 1420
soils 2781
spread 1420
weed associations 1420
seeds
populations 448, 2781
soils 448
spread 448
Black currants 3543
Blackberries (weed) 2860, 2862
Blainvillea rhomboidea 2041
Blechum brownei 2533
Blueberries 402-403, 670, 1116, 1703-1707, 2303, 2436, 2734
Blumea sinuata 2531
Boerhavia diffusa 1594
Bolboschoenus maritimus *(see Scirpus maritimus)*
Books
biochemistry of storage carbohydrates 3800
cereal rotations 1540
Cicer arietinum 3804
cotton, weed control 1180
crop production 2006
Dioscorea 580
ecology of biological invasions 3426
Eichhornia crassipes 2958
embryogenesis in angiosperms 1181
flora
Australia 2957, 3799
East Africa 3798
Yugoslavia 137
freshwater vegetation management 2960
grasses 2642
herbicide directory 1542
herbicides
legislation 570
mode of action 582
physiology 859
Books *cont.*
lawns and sports turf 70
light emission by plants and bacteria 3430
maize 3803
weed control 1180
multiple cropping systems 2007
organic farming 1179
pest control manual 3427
pest management 2956
pesticide application 3424
pesticide directory 857
pesticide disposal 1541
pesticide manual 2962, 3192
pesticides, approved products 581
pesticides on plant surfaces 3802
photomorphogenesis in plants 3429
photoperception 583
plant pathogens 508
rice 279
weed control 578, 1180
weed ecology 578
science, sprays and sprayers 2961
spray adjuvants 2350
subtropical crops 280
tree, turf and ornamental pesticide guide 3425
tropical crops 280
vegetation management 2008
weed control
developing countries 2959
education 2959
intensive agriculture 579
management 2959
weed control in forests 3428
weeds
ecology, allelopathy 1182
Mediterranean 2643
New Zealand 3193
Borreria articularis 2070
Borreria elata 1281
Borreria laevis 2371
Boschniaka rossica 2133
Bothriochloa ischaemum **var.** ***ischaemum*** 2765
Bouteloua curtipendula 3284, 3385
Brachiaria 3686
Brachiaria decumbens 55, 932, 1038, 3601
Brachiaria humidicola 933
Brachiaria mutica 969, 2819, 3331
Brachiaria plantaginea 2041
control
chemical control
alloxydim 620
bentazone 620, 2094
chlorazifop 620
2,4-DB 1244
diclofop 620
fluazifop 620
metribuzin 1244
oryzalin 1244
paraquat 2094
sethoxydim 620
seeds
germination, temperature 1772
longevity 1772
scarification 1772
viability 1772
Brachiaria platyphylla 27, 162
control
chemical control 343, 2998
alachlor 2813, 2964
atrazine 2964
2,4-D 3473
dinoseb 2964
fenoxaprop 2055
fluazifop 2055
haloxyfop 2055
linuron 2964
naptalam 2964
oxadiazon 903
propanil 903
quizalofop 2055, 3521
sethoxydim 3473
2,4,5-T 903
herbicide application, resistance 2813
ecology, population dynamics 2813
seeds, depth of burial 2813
Brachiaria subquadriparia 2845
Brassica 2012, 2790
Brassica campestris 231, 1207, 1893, 2057, 2266, 2898, 3147
Brassica campestris **var.** ***rapa*** 1098
Brassica hirta *(see Sinapis alba)*
Brassica juncea 753, 2898, 3063
Brassica kaber *(see Sinapis arvensis)*
Brassica napus 433, 750, 2266, 2889, 2897-2898, 3136, 3146, 3525
Brassica napus **var.** ***oleifera***
herbicide application
breeding for herbicide resistance 1816, 1893
diseases 2412
drift 2999
growth 2569
physiology 2570
residues 3152
selectivity 2010, 2712
soil mesofauna 2298
susceptibility 1119
tolerance 1893
yields 1119, 3523-3524
weed control
chemical control 1642
alachlor 3522
aziprotryne 3230
benazolin 3230, 3522, 3525
carbetamide 1641, 2410, 3230, 3522
clopyralid 1641, 3522, 3525
cycloxydim 1631
dimefuron 1641, 2410, 3230, 3522
diphenamid 3523
diquat 2999
diuron 3230
EPTC 3523
ethalfluralin 918
fluazifop 918
fluchloralin 2411
haloxyfop 918
metazachlor 1640
metolachlor 918
monolinuron 918
nitrofen 2411
oxadiazon 918, 2411, 3523
oxyfluorfen 2411
pendimethalin 2411, 3523
profluralin 3523
propachlor 3230
propyzamide 3230
quizalofop 865
sethoxydim 3524
TCA 3230
tebutam 3522
trifluralin 3230
weeds
competition 741, 1642, 1816-1817, 3298, 3645
distribution 751, 1422
seeds 3645
surveys 2187
yields 3645
Brassica napus **var.** ***oleifera*** **(weed)** 658, 2192
Brassica napus **(weed)** 1432, 3449
Brassica nigra 477, 3717
Brassica oleracea 3136
Brassica pekinensis 376
Brassica rapa 2520
Brassinolides 2045
Brazil
flora 482
reports 1176
Broccoli 648, 942, 1688
Bromacil
analytical methods
gas chromatography 1484
spectroscopy 1484
physiology
metabolism, chlorophyll 531
mode of action 1432
photosynthesis 531
respiration 531
soils
adsorption 242, 2928
degradation 2309, 2928
humic acids 242
leaching 243

Bromacil *cont.*
soils *cont.*
moisture 2309
movement 242
persistence 2928
temperature 2309
usage
crops
culinary herbs 3016
forests 88, 3579
small fruits 683
tree fruits 688, 962
vegetables 1285
residual effects 3016
weeds 712
Bromide, methyl 504, 3015
Bromofenoxim
analytical methods, gas chromatography 1923
usage
application, methods 592
crops, cereals 288, 592, 2671-2672
rates 592
weeds 989
Bromoxynil
analytical methods, gas chromatography 1923
physiology
cytology
chloroplasts 795, 803
pigments 803
degradation 795, 3718
metabolism, chlorophyll 803
mode of action 795, 1432
penetration 795
photosynthesis 803, 1858
translocation 795, 3718
ultrastructure 795, 803
uptake 3718
soils, fertility 3450
usage
antagonism 2658
application, methods 567, 592
compatibility, herbicides 2660
crops
cereals 7, 10-11, 19, 288-290, 296, 300, 584, 588-590, 592, 878, 1560, 1567, 1569-1570, 2021, 2031, 2034, 2039, 2652, 2670-2671, 2966, 3442-3443, 3448, 3450, 3460-3463, 3470
fallow 939
fodder crops 642, 2652, 2969
grasslands 937
legumes 1672, 2969
oil plants 1267
root crops 2652
vegetables 939
damage 304, 311, 1672, 3460
mixtures 11, 304, 1560, 1570
rates 592
selectivity 3718
weeds 108, 708
wetters 304
yields 311, 1267, 2969, 3450
Bromus 8, 918, 1823, 2229, 2510, 2663, 2791
Bromus catharticus 23, 1209, 1337, 2078
Bromus hordeaceus 122, 1760, 1764, 1993, 2078
Bromus inermis 373, 1770, 2079, 2447, 3646
Bromus japonicus 3652
Bromus marginatus 1686
Bromus mollis *(see Bromus hordeaceus)*
Bromus pectinatus 2355
Bromus secalinus 1201, 1523, 1564, 1576, 2664, 2743, 3458, 3652
Bromus sterilis 18, 23, 121-122, 154-155, 1209, 1760, 2129, 3319, 3652
Bromus tectorum 59, 167, 452, 468, 1023, 1709, 1762, 2419, 2657, 3458, 3652
Bromus willdenowii *(see Bromus catharticus)*
Brunnichia cirrhosa 1827
Brunnichia ovata 343
Brussels sprouts 942
Bryophyllum daigremontianum 3040
Bryophyllum daigremontianum* × *B. tubiflorum 3040
Bryophyllum pinnatum 3040
Bryophyllum proliferum 3040
Bryophyllum tubiflorum 3040
Bryophyta 843
Buckwheat 1137, 1648, 2258
Butachlor
analytical methods
gas chromatography 1930
mass spectrometry 1930
physiology
metabolism
amino acids 3357
carbohydrates 3357
chlorophyll 531, 3357
photosynthesis 531
respiration 531
residues
plant residues 3386
soils 3386
soils
microbial activities, enzymes 3770
microorganisms, bacteria 2322
persistence 2428
types 3770
toxicity, fishes 3386
toxicology, mutagens 2322
usage
additives 2380
crops, cereals 322, 324-325, 616, 898, 902, 1561, 2045, 2047, 2379-2380, 2679, 2682-2683, 2976, 3357, 3483
damage 2045, 2976, 3483
economics 2047
green manures 2048
mixtures 3358
no-tillage 2049
safeners 2045
synergism 2905
yields 2047, 2683, 2976
Butam
usage
crops, vegetables 376
damage 376
yields 376
Butamifos, usage, crops, cereals 2012
Buthidazole, physiology, mode of action 1432
Butomus umbellatus 1226
Butralin
analytical methods, gas liquid chromatography 237
usage
application, methods 925
crops
fibre plants 925
legumes 2090-2091, 3548, 3550
small fruits 672
damage 2090, 3548
selectivity 3548
Buturon, usage, weeds 495
Butylate
analytical methods, bioassays 1508
formulations, granules 3471
physiology, germination 526
soils
degradation 1508, 2604
microbial degradation 561
persistence 1508
toxicology, disposal 552
usage
additives 561, 2604
application, methods 249, 314, 3172, 3471
compatibility
fertilizers 2329
insecticides 2616
crops
cereals 314-316, 1220, 2616, 3470
grasslands 937
oil plants 1267, 1643, 3530
vegetables 374
damage 1267
fertilizers 3471
Butylate *cont.*
usage *cont.*
safeners 316, 2377
tolerance 1055
yields 1267
Buxus microphylla 652
Cabbages
herbicide application
damage 3547
residues 1949
tolerance 860
yields 2087
weed control
chemical control 942, 3544
alachlor 648, 3547
benazolin 1284
chlorthal-dimethyl 3547
desmetryn 1290-1291, 2087, 3547
diethatyl 648
fluazifop 3543
fluazifop-butyl 1291
metolachlor 648
napropamide 648, 3547
neburon 1290
nitrofen 1284, 1290
oryzalin 648
oxyfluorfen 648, 1292
pendimethalin 1291
propachlor 1284, 1290, 3547
propyzamide 3547
simazine 1290
trifluralin 648, 943, 1290-1291, 2096
cultural control
manual weed control 3547
mulching 2087
recommendations 1298
weeds, hosts of plant pests 3336
Cabomba caroliniana 744
Cacodylic acid 1488, 1936, 3394
Cactaceae 2866
Cajanus cajan 625-626, 2697, 2995, 3222, 3642
Caladium hortulanum 951
Calandrinia caulescens 3592
Calandrinia ciliata 1573
Calla 3561
Callitriche truncata 759
Calluna vulgaris 388, 3004-3005
Calocedrus decurrens 3267
Calopogonium mucunoides 1907
Calotropis procera 149, 1045
Calystegia sepium 310, 360, 774, 1219, 2829, 3211, 3440
Camelina sativa 1045
Campsis radicans 111, 2743
Canada
Alberta, reports 3793
flora 457-458, 2816, 3627
aquatic weeds 3651
reports 1998
weed control
biological control 2353, 3675
education 3408
recommendations 913
reviews 913, 2353
Cannabis sativa 474, 1062, 1071, 1885, 3690
Canola 1893
Cantaloupes 647
Caperonia castaneifolia 1230
Caperonia palustris 1452
Capparis spinosa 846
Capsella bursa-pastoris
bioassays 1408
biology
anatomy 444
exudates 1867
mycorrhizas 1156
physiology 2544
control
biological control, insects 1084
chemical control 1220, 2733
alachlor 2037
amitrole 409
benfluralin 3549
bifenox 300
bromoxynil 300, 3463
carbetamide 3522
chloroxuron 2086

Capsella bursa-pastoris *cont.*
control *cont.*
chemical control *cont.*
2,4-D 300
dicamba 300
dimefuron 3522
dinoseb 300
diuron 409
EPTC 934, 2037, 3549
ethofumesate 1656
flurochloridone 300
fluroxypyr 1649, 3463
linuron 2086
MCPA 300
metribuzin 300
neburon 2086
norflurazon 1668, 1709
pendimethalin 300, 2086
prometryn 2037, 2086
pyridate 300
simazine 409
cultural control
cultivation 1192
discing 1192
rotary cultivation 1192
minimum tillage 1192
ecology
competition 1418, 1766
minerals 1408
nutrient uptake 1408
population dynamics 1418
soils 1408
hosts of plant pests 1084, 1867
seeds
dormancy 996
germination 994
temperature 996
populations 448
predation 1766
production 444, 1084
size 994
soils 448, 994
spread 448
utilization 1408
Capsicum 380, 947, 1687-1688, 3240, 3543
Capsicum annuum 381, 945, 1470, 1689, 2433, 3544-3545
Caragana arborescens 977
Carbamate, 4-chlorophenyl methyl- 2927
Carbamate, potassium *N*-hydroxymethyl-*N*-methyldithio- 3157
Carbamates 231, 2278
Carbamates, phenyl- 229
Carbamates, *N*-phenyl- 2887
Carbamates, thio- 2043, 2926
Carbetamide
residues
plant residues 1949
soils 1949
soils, degradation 1152
usage
crops
cereals 3029
legumes 2684-2687, 3548
oil plants 1641, 2410, 3230, 3522
vegetables 383-384
damage 3548
selectivity 2684-2686, 3548
yields 3230
Carbothioate, *S*-isopropylhexahydro-1*H*-azepine-1- 3214
Carbothioate, *S*-1-(methyl-1-phenylethyl) piperidine-1- 3214
Carboxylate, methyl 3-(3-(4-methoxy-6-methyl-1,3,5-triazin-2-yl) ureidosulphonyl)thiopene-2- 300, 871, 2011
Carboxylate, methyl 3-(3-(4-methoxy-6-methyl-1,3,5-triazin-2-yl) ureidosulphonyl)thiophene-2- 2355, 2665
Carboxylate, phenylmethyl 2-chloro-4-(trifluoromethyl)-5-thiazole- 2377
Carboxylic acid, 7-chloro-3-methyl-quinoline-8- 1551, 1640
Carboxylic acid, 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1*H*-imidazol-2-yl]-5-ethyl-3-pyridine- 2449, 2981, 2985, 2987
Carboxylic acid, *L*-2-oxo-thiazolidine-4- 287
Carboxylic acids, chlorophenoxyalkane- 542
Carboxylic acids, phenoxyalkane 2285, 3143, 3154
Cardamine hirsuta 388, 996
Cardaria draba 1614, 2031
Carduus 509, 775, 1085
Carduus acanthoides 783
Carduus heteromalla 2059
Carduus nutans 777, 1362, 2426, 3677
control
biological control, insects 1451, 3093
chemical control, paraquat 1278
ecology, competition 1451
seeds
germination 1278, 1451, 3633
viability 1451
Carduus pycnocephalus 1007, 1425, 3092, 3682
Carduus tenuiflorus 1673, 2136, 3682
Carduus tenuis 1425
Carduus thoermeri 783
Carex 2144
Carex acuta 100
Carex davalliana 1384
Carex flacca 3292
Carex kingiana 1393
Carex lurida 2503
Carex phacota 1376
Carex riparia 106
Carex sahnii 1393
Carex trisperma 671
Carpentaria acuminata 2101
Carrots
herbicide application
acid rain 1185
damage 1620
physiology 2578
quality 297
residues 1949, 3149, 3164
tissue culture 2578
tolerance 817, 860, 2011
yields 354, 3164
weed control
chemical control 646, 2012
benazolin 1284
diflufenican 2009
fluazifop 1284
flurochloridone 354
nitrofen 1284
prometryn 2095
reviews 3008
weeds, allelopathy 1046
Carrots (weed) 1269, 2465
Carthamus lanatus 1007
Carthamus oxyacantha 16, 2242
Carthamus tinctorius 3094
Carum carvi 1654, 1676-1677
Carya 714, 1338, 2451
Carya ovata 93
Carya tomentosa 1728
Cassava 917, 3191
weed control, management, cropping systems 2708
weeds
distribution 2526
yields 2709
Cassia 1246, 2245
Cassia obtusifolia 42, 1211, 1228, 1467, 1870, 2149, 2247, 2802-2803, 2817, 3339
control
biological control, fungi 1453
chemical control 1231
chlorimuron 3505
2,4-DB 3505
dinoseb 3505
imazaquin 1238, 3505
metribuzin 3757
naptalam 3505
ecology, competition 3058, 3186
seeds
depth of burial 3043
germination, temperature 3043
viability 3043
Cassia tora 2149
Castanea crenata 56
Castanea sativa 213
Casuarina cunninghamiana 1328
Casuarina glauca 68
Catharanthus roseus 1863
Caucalis daucoides 2815
Caucalis latifolia 2815
Cauliflowers
herbicide application
damage 944, 2728, 3547
nutrient deficiencies 944
susceptibility 860
weed control
chemical control 942
alachlor 3547
chlorthal-dimethyl 3547
desmetryn 3547
fluchloralin 2728
methabenzthiazuron 2728
metham 647
metribuzin 2728
napropamide 375, 3547
nitrofen 2728
oxadiazon 2728
oxyfluorfen 375
pendimethalin 375, 2088
propachlor 375, 3547
propyzamide 3547
simazine 2728
trifluralin 375
cultural control, manual weed control 2088, 2728, 3547
weeds, competition 2088
Ceanothus 1683
Ceanothus velutinus 1738, 1740, 3260
Celastrus orbiculatus 2732
Celeriac 379
Celery 860
Celosia argentea 3305
Celtis occidentalis 3243, 3315
Cenchrus ciliaris 937, 1680
Cenchrus echinatus 740
Cenchrus incertus 343, 925, 1669
Centaurea 1109, 2823, 2867, 3087
Centaurea alba 2150
Centaurea alpina 2150
Centaurea calcitrapa 1007
Centaurea cyanus 469, 1035, 1192, 2150, 2183, 2815, 3048
Centaurea diffusa 437, 784, 1880, 2868, 3095, 3677
Centaurea maculosa 437, 784, 1023, 1880, 2854, 2868, 3094, 3625, 3677, 3710
Centaurea montana 2150
Centaurea picris *(see Acroptilon repens)*
Centaurea repens *(see Acroptilon repens)*
Centaurea scabiosa 2150, 2815
Centaurea sempervirens 2150
Centaurea solstitialis 498, 777, 784, 1042, 2565, 2743
Cerastium arvense 2787
Cerastium glomeratum 477
Cerastium viscosum 996
Cerastium vulgatum 296, 300
Ceratophyllum 176
Ceratophyllum demersum 99, 466, 487, 758, 1831, 2164, 2848, 3053, 3656
Cercidium 3714
Chaerophyllum hirsutum 1658, 1679
Chaerophyllum temulentum 477
Chamaecyparis lawsoniana 1328
Chamaecyparis obtusa 3348
Chamaedorea elegans 2101
Chamaenerion angustifolium *(see Epilobium angustifolium)*
Chamomilla 1621, 1641
Chamomilla recutita 1821
biology, composition 2496
control
chemical control 1268
benfluralin 383
dichlorprop 1579
flurochloridone 1636
mecoprop 1579
propyzamide 383
ecology
competition 1817
distribution 2186
metal tolerance 2496
soils 2186

Chamomilla recutita *cont.*
seeds
germination 485
population 485
Chamomilla suaveolens 362, 504
Chara 106, 174, 3270
Chara australis 1439
Chara corallina 1438
Chara zeylandica 758
Charales 1145
Cheilanthes albomarginata 2837
Chenopodium 367, 950, 2090, 2130, 2405, 2521, 3511, 3602
Chenopodium album
biology
flowering 134
identification 3189
life cycle 2785
phenotypes 1845
photosynthesis 226, 2266
physiology 1845, 2266, 3318
pollination 3614
control
chemical control 343, 646, 1220, 1227, 1231, 1601, 2058, 2066, 2403, 2419, 2714, 2733, 3219, 3507
acifluorfen 339-340, 342, 3499
aclonifen 29
alachlor 39, 329, 336, 1271, 2037, 2395, 3499
atrazine 29-30, 312, 891, 2036, 2672, 3548
benazolin 362, 3525, 3593
benfluralin 3549
bentazone 30, 39, 339-340, 919, 2072, 3499, 3514
bifenox 3530
bromofenoxim 2671-2672
bromoxynil 30, 567, 2652
butralin 2091, 3548
butylate 1643, 3530
carbetamide 3548
chlorbromuron 3530
chloridazon 1612
chlorotoluron 16, 1207
chlorsulfuron 883, 2367, 2652
chlorthal-dimethyl 662
cinmethylin 329
cloproxydim 632
clopyralid 362, 2652, 3525, 3593
cyanazine 30, 312, 2672, 2980
cycloate 633
2,4-D 567, 1562, 2036, 2072, 2652
2,4-DB 934
dicamba 30, 2072, 2652
diclofop 1271
dimefuron 3548
dinoseb 1692, 2980
dinoterb 3548
diphenamid 662, 1695
EPTC 633, 934, 1271, 2037, 3549
ethalfluralin 1698, 3548
fenoxaprop 3499
fenuron 3530
fluazifop 337, 1271, 1695, 3499, 3546
flurochloridone 1271, 1636
fomesafen 649, 3499
haloxyfop 336-337, 632, 3530
imazaquin 333, 336, 340, 1645
lenacil 2060
linuron 39, 333, 339-340, 342, 1268, 1271, 3499
MCPA 919, 1207
metamitron 1612, 1821
metazachlor 1271
methabenzthiazuron 1821
metobromuron 1268, 1271, 2395, 3499
metolachlor 333, 336-337, 633, 1695, 2091, 2395, 2672, 3513, 3548
metoxuron 1207
metribuzin 30, 329, 339, 342, 632-633, 1695, 1821, 3499, 3513
monolinuron 2091, 3548
napropamide 662, 1695
Chenopodium album *cont.*
control *cont.*
chemical control *cont.*
neburon 3548
oxyfluorfen 654, 2395, 3546
pendimethalin 30, 336, 1271, 2395, 3499, 3548
phenmedipham 1612, 2060
prometryn 1643, 2037, 2980, 3530
propachlor 2091, 3548
quizalofop 632, 1271, 3499
sethoxydim 39, 337, 1271, 1695
terbuthylazine 2671-2672
terbutryn 891
tridiphane 312
trifluralin 39, 1300, 1643, 2097, 3499
cultural control 1562, 2066, 3219
cultivation 1192
discing 1192
flaming 39
hoeing 39
mulching 1110
rotary cultivation 1192
solarization 3241
herbicide application
physiology 1462, 2887, 3133
resistance 29, 521
management 2804
fertilizers 1156, 1829
irrigation 1698
mowing 1629
minimum tillage 1192, 1562
species shift 1821, 1829
ecology
allelopathy 204, 3061
biotypes 30, 2266, 3133
colonizing ability 2202
competition 226, 737, 1613, 1807, 1813, 2059, 2066, 2175, 2509, 2785, 2804, 3298, 3301, 3645
distribution 751, 2192-2194
fertilizers 2193
habitats 3066, 3318
light 462, 1798, 3066, 3318
nutrient removal 1813
nutrient uptake 3298
phenology 2785
population dynamics 1798
soils 2781
spread 1798, 1826, 2202
water relations 1798
weed associations 1798
hosts of plant diseases 2228
hosts of plant pests 2241, 3672
seeds
contamination 737, 3048
dormancy 126, 2876, 3286
germination 720, 994
stimulants 126, 2876, 3286
temperature 1761, 2785, 2876, 3606
growth regulators 126, 3286
populations 448, 2781
production 1798, 3066, 3645
size 994
soils 448, 994
spread 448
structure 2131
utilization 846
Chenopodium amaranticolor 3330
Chenopodium botrys 846
Chenopodium ficifolium 2142, 3614
Chenopodium glaucum 386, 3614
Chenopodium hircinum 1783
Chenopodium hybridum 3530, 3614
Chenopodium murale 505, 1391, 2059, 3061
Chenopodium polyspermum 3241
Chenopodium quinoa 1783
Chenopodium rubrum 462, 1369-1374, 2794, 3320
Chenopodium strictum 3614
Chenopodium suecicum 2183, 3614
Chenopodium vulgare 1432
Chenopodium vulvaria 2142
Cherries 685, 687, 1818, 2738, 3543
China
flora 178, 3650
China *cont.*
weed control
biological control 2243
reviews 2243
Chloral hydrate 3512
Chloramben
formulations, granules 41
physiology
absorption 3728
translocation 3728
usage
crops
forests 977
legumes 1603, 2986, 2988, 2992, 3475
oil plants 1267
ornamentals 389
vegetables 386, 646, 1295, 2730
diseases 2696
mixtures 2731, 2988
safeners 2730-2731
yields 1267
Chlorate, sodium 964
Chlorazifop
physiology
adsorption 517
translocation 517
uptake 1670
residues, soils 1511
soils
adsorption 1511
leaching 1511
pH 1511
usage
additives 517
crops
fibre plants 3517
grasses 1670
legumes 327, 620, 1670, 2694
oil plants 1644
vegetables 1687
damage 1670, 1687
residual effects 2694
yields 2694
Chlorbromuron
usage
crops
legumes 1598, 1601
oil plants 3527, 3530
root crops 2067
vegetables 387
resistant weeds 1474
weeds 708
Chlorella 532
Chlorella fusca 1889
Chlorfenprop
physiology, morphology 609
usage
crops, cereals 609
damage 609
Chlorfenprop-methyl
physiology
translocation 1135
uptake 1135
soils
degradation 3395
microorganisms
bacteria 3395
fungi 3395
straw 3395
usage
compatibility
fungicides 3395
growth regulators 3395
herbicides 3395
insecticides 3395
crops, cereals 1135
Chloridazon
analytical methods
bioassays 1940
thin layer chromatography 539, 1920, 1940
physiology
cytology
cell membranes 800
chloroplasts 528
metabolism
amides 1628
amino acids 1628
mode of action 528, 798, 1432
penetration 798

Chloridazon *cont.*
residues
atmosphere 539
plant residues 1920
soils 1620, 1920, 1940, 3151
water 3151
soils
adsorption 3760
cation exchange 3760
degradation 1940, 3760
leaching 3760
microbial activities
enzymes 1155
nitrogen fixation 1155
respiration 1155
microorganisms
cyanobacteria 2319
mycorrhizas 1156
persistence 1940
types 1155, 3760
vaporization 3760
usage
additives 47
application, methods 831
climate 47
crops
cereals 798
root crops 47, 630, 911, 1584, 1608, 1612, 1618-1620, 1625, 1627-1628, 2057-2058, 2403, 2700-2701
damage 1620
mixtures 630, 1618, 1625, 1627, 2403, 2700-2701
rates 630
rescue crops 1620
sequences 630
tolerance 1055
weeds 495
yields 2700
Chloride, sodium 2441
Chlorimuron
usage
crops
lawns and sports turf 2435
legumes 3225, 3505
damage 3505
quality 3505
yields 3225, 3505
Chlornitrofen
analytical methods, gas liquid chromatography 1925
residues, plant residues 1925
Chloropicrin 1694
Chlorotoluron
analytical methods 1201
gas liquid chromatography 1141
physiology
degradation 216
genetics, mitosis 618
uptake 216
residues
soils 1620, 3151
water 3151
soils
adsorption 242
degradation 2309, 3395
humic acids 242
microbial activities
enzymes 1155
nitrogen fixation 1155
respiration 1155
microorganisms
bacteria 3395
cyanobacteria 2319
fungi 3395
moisture 2309
movement 242
straw 3395
temperature 2309
types 1155
usage
application
equipment 3173
methods 592
compatibility
fungicides 3395
growth regulators 3395
herbicides 1551, 3395
insecticides 3395

Chlorotoluron *cont.*
usage *cont.*
crops
cereals 5, 12-14, 16, 24, 592, 596, 603, 610, 618, 880, 1201, 1207, 1554, 2030, 2360, 2976, 3029, 3173, 3439, 3442
legumes 618
damage 610, 618, 880, 1620, 2976
economics 1207, 3439
mixtures 880
rates 592
rescue crops 1620
tolerance 1055
weeds 107-108, 495
yields 1207, 2976
Chloroxuron
usage
crops
forests 3024-3025
ornamentals 388, 3020
small fruits 2733
vegetables 2086
damage 3025
tolerance 1055
Chlorpropham
analytical methods, chromatography 544
physiology, photosynthesis 229
residues
soils 2304
water 1961
soils
degradation 2304
microbial degradation 1961
persistence 2304
photolysis 2927
types 2304
usage
crops
forests 80
ornamentals 3018
small fruits 2735
vegetables 383-387, 950, 1284
damage 372
parasitic weeds 2735
Chlorsulfuron
analysis
liquid scintillation counting 2608
thin layer chromatography 2608
analytical methods, chromatography 1924
physiology
cell division 2261
cytology, chloroplasts 2277
degradation 235
genetics 219, 1892, 1895
germination 302
metabolism
amino acids 2261, 2277
chlorophyll 608
enzymes 219, 1892
fatty acids 2277
mode of action 219, 1892
photosynthesis 532, 1203
residues, soils 1513
soils
adsorption 1513
damage 1546
degradation 1151, 1546, 2608
moisture 1513
organic matter 1513
persistence 1151
pH 1513, 2608
rain 1546
temperature 1513
usage
acid rain 608
antagonism 3027
application, methods 436
compatibility, insecticides 1203
crops
cereals 10, 155, 288, 291, 588, 603, 610, 739, 880, 883-884, 1197, 1203, 1205, 1513, 1563, 1567, 1570, 1591, 1619, 2029-2031, 2367, 2652, 3029, 3448, 3451, 3462
fallow 1555

Chlorsulfuron *cont.*
usage *cont.*
crops *cont.*
fibre plants 3515
fodder crops 1591, 2652
forests 2449
grasslands 883
lawns and sports turf 71, 1309
legumes 1197, 1513
rangelands 60, 1686
root crops 883, 2652
damage 60, 303, 610, 880, 883, 1203, 1546, 1619
diseases 1193
interactions 3027
mixtures 291, 588, 880, 1555, 1570, 3027
non-crop weed control 2465
parasitic weeds 502
persistence 1546
residual effects 2367
safeners 28, 1909
tolerance 1055
weeds 1746, 3273
wetters 588
yields 60, 302-303, 883, 1203, 1205, 1563, 3451
Chlorthal
analytical methods, gas chromatography 1923
usage
crops
lawns and sports turf 656
vegetables 942
irrigation 942
Chlorthal-dimethyl
physiology
metabolism
nitrate nitrogen 3010
nutrients 3010
uptake 3010
residues, plant residues 948
soils, microbial activities 948
usage
crops
forests 80, 976, 2113, 3025
lawns and sports turf 393, 952, 956-957, 1308, 1313, 3245
legumes 3554
medicinal herbs 1273
ornamentals 1302
root crops 50
small fruits 662, 664, 2735
vegetables 940, 948, 1288-1289, 3547
damage 1273, 3025
mixtures 1273
parasitic weeds 2735
safeners 3580
weeds 428
Chlorthiamid
usage
crops
culinary herbs 3016
small fruits 676
tree fruits 404, 676
residual effects 3016
sequences 710
tolerance 1055
Chondrilla juncea 163, 713, 2168, 2947, 3087, 3180, 3653-3654, 3688, 3785
Chromolaena 971
Chromolaena odorata *(see Eupatorium odoratum)*
Chrozophora plicata 149
Chrysalidocarpus lutescens 2101
Chrysanthemoides monilifera 2487
Chrysanthemoides monilifera **subsp.** ***monilifera*** 1024
Chrysanthemoides monilifera **subsp.** ***rotundata*** 1024
Chrysanthemum segetum 485
Chrysothamnus viscidiflorus 148
Cicer arietinum 1251, 2352, 3307, 3804
Cichorium intybus 383-384
Cicuta douglasii 439
Cicuta maculata 439
Cinmethylin
analytical methods 1945
physiology
cytology 522

Cinmethylin *cont.*
physiology *cont.*
degradation 236
genetics, mitosis 522
mode of action 236, 522
properties
solubility 236
vapour pressure 3372
residues, soils 365
soils
adsorption 1945
degradation 1945
leaching 236
microbial degradation 236
movement 1945
persistence 2010, 2921
toxicology, rats 1954-1955
usage
crops
legumes 329, 2399, 2987
ornamentals 1689
plantation crops 365
root crops 1689
vegetables 1688-1689
damage 1688, 2987
selectivity 2010
Cirsium 1085, 2565, 3604, 3626, 3794
Cirsium arvense
biology
anatomy 2484
development 476, 2484
exudates 476
physiology 1133
roots 573, 2484
shoots 2484
vegetative propagation 1367
control
biological control
fungi 196, 2865, 3096, 3711
insects 2250, 2865, 3096-3097
chemical control 363, 1219, 1337, 3456
bentazone 2072, 2074, 2969, 3274
bromoxynil 1557, 2031, 2652
chlorsulfuron 2031, 2652, 3273
clopyralid 892, 1286-1287, 1557, 2074, 2652, 3444
2,4-D 677, 862, 881, 890, 892, 2031, 2072, 2652
2,4-DB 2969
dicamba 310, 1286, 2031, 2072, 2652
diclofop 881
fluazifop 46
fluridone 3274
glyphosate 892, 2121
MCPA 1557, 2031
metamitron 46
metsulfuron 1558
oxyfluorfen 654
phenmedipham 46
2,3,6-TBA 890
triclopyr 677, 2074
trifluralin 46
cultural control
cultivation 892
cutting 2081
ploughing 892
herbicide application, physiology 235, 805
integrated control 1614
management
fertilizers 1829
grazing 2851
rotations 1614
species shift 881, 1829
ecology
allelopathy 476, 1045
colonizing ability 1385
competition 737, 1813, 3298
distribution 1425, 2186, 2193-2194, 2815
fertilizers 2193
habitats 486
nutrient removal 1813
nutrient uptake 3298
soils 2186
spread 1047
synecology 481
weed associations 481
Cirsium arvense *cont.*
herbicide application, growth stage 1133
seeds
contamination 737
depth of burial 1362
germination 994, 1362
size 994
soils 994
viability 1009, 1362
Cirsium incanum 2105
Cirsium setosum 2183
Cirsium texanum 2743
Cirsium vulgare 1007, 1362, 1425, 1841, 2077, 2557, 2719, 2743, 2851
control, biological control, insects 3098
Cistanche 2132, 2832, 2850
Cistanche phelypaea 2832
Cistanche salsa 2133
Citrullus colocynthis 2520
Citrullus lanatus 1299, 1687-1688
Citrus
herbicide application, physiology 3120
weed control
biological control
fungi 789, 2247, 2853
mycoherbicides 788
chemical control 2108
atrazine 688
bromacil 688
diuron 688
simazine 688
terbacil 688
integrated control 3795
weeds
competition 2108
parasitic weeds 184
surveys 138, 2531
Citrus aurantium 3120
Citrus jambhiri 3120
Citrus reshni 3120
Citrus reticulata 184
Citrus sinensis* × *Poncirus trifoliata 1324, 3120
Cladophora 106
Cladophora glomerata 97
Clematis vitalba 1349
Cleome gynandra 3642
Cleome rutidosperma 2779
Cleome viscosa 3240
Clerodendron inerme 149
Clibadium surinamense 972
Clidemia hirta 972, 1871
Clofop, usage, crops, cereals 7
Cloproxydim
usage
crops
fibre plants 3519
lawns and sports turf 1312
root crops 632
damage 1195
weeds 429
yields 1262, 3519
Clopyralid
analytical methods
bioassays 817, 3768
gas chromatography 1923
physiology
adsorption 1752
metabolism, alkaloids 1282
mode of action 805
translocation 1752
residues
soils 817
water 238
soils
microorganisms, bacteria 563
persistence 817
usage
additives 1752
climate 3593
rain 3593
application, methods 1681
compatibility
fertilizers 867
growth regulators 867
crops
cereals 15, 288-290, 293, 305, 817, 867, 892, 1567, 2021, 2652, 2662, 3443-3444, 3446
Clopyralid *cont.*
usage *cont.*
crops *cont.*
fibre plants 363
fodder crops 2652
forests 238, 1328, 1334, 1337, 1740
grasslands 1658, 2074, 3538
legumes 817, 1673
oil plants 817, 1641, 3522, 3525
rangelands 1282, 1681, 2426
root crops 362, 2652
small fruits 659, 661, 666
tree fruits 659
vegetables 817, 1286-1287
damage 817
mixtures 1328, 1348, 1740, 1752, 2074, 3444
persistence 817
poisonous weeds 1282
residual effects 817
synergism 2074
weeds 987, 989, 1348
woody weeds 1334
Cnicus benedictus 3094
Cocoa 964, 966-969, 1004, 1039, 1100
Coconuts 690, 964, 971, 1719
Coffee 75-76, 1716-1717, 2819
Cogniauxia 77
Colchicum autumnale 2200, 2719
Colocasia esculenta 2533, 3360
Commelina benghalensis 321, 1088, 1857, 2245, 2409, 3486
Commelina communis 150, 1111, 1434, 1443, 2546-2547, 2788-2789, 2830-2831, 2878
Commelina diffusa 2355, 2646
Commelina fragrans 1634
Commelina longicaulis 36
Compositae 195, 1062, 1781
Comptonia peregrina 402, 3258
Conferences
Agricultural aviation 839, 855, 1164
Ambrosia artemisiifolia and methods for its control 1178
American Chemical Society, 189th meeting 2001
American Chemical Society 190th national meeting 1890-1894, 1914-1915, 1927, 1961, 2262, 2265, 2272, 2288, 2302, 2311, 2316, 2347
American Chemical Society 191st national meeting 1933, 1945-1947, 1954-1956, 1968, 2348
American Chemical Society 192nd national meeting 1878, 1886, 1895, 1901, 1908, 1912, 1917, 1934, 1944, 1963-1966, 1969, 2349
American Chemical Society, 193rd national meeting 2854, 2904, 2911, 2915, 2922, 2925-2926, 2929, 2931, 2954
Annual technical meeting on sugarbeet 345
Biology and control of *Orobanche* 860, 909, 926, 1058-1059, 1061-1081, 1101, 1177
Biology and control of weeds in cereals 3-4, 7, 12, 18-19, 23, 107-108, 121, 154-155, 164-165, 584, 588-591, 593-596, 707, 723, 739, 795-796, 799, 874, 878
Botanical Society of America 1999
Bracken. Ecology, land use and control technology 58, 60, 79, 87, 199-200, 247, 250, 259
British Crop Protection Conference, Weeds 2, 5-6, 8-11, 114, 260, 271, 284, 310, 349, 354-357, 362, 365, 375
California weed conference 587, 617, 647, 650-651, 655, 678, 722, 730, 732, 754, 821, 835, 838, 842, 912, 938-939, 942, 945, 949, 978, 1147, 1168-1169, 1184, 1265, 1293, 1305-1306, 1311, 1319, 1322-1323, 1336, 1529, 1538, 1664-1665, 1683, 1710-1713, 1743, 1753-1754, 1979, 1982-

Conferences *cont.*
California weed conference *cont.* 1983, 1991, 3438, 3445, 3555-3556, 3560-3564, 3567-3569, 3574, 3592, 3595-3596, 3743, 3746, 3787, 3797
Canadian Pest Management Society 854, 865, 871, 883, 904, 913, 986
Conserve the soil 3196, 3198, 3200, 3206, 3232-3233, 3250
Crop protection in northern Britain 3441-3443, 3449, 3461-3464, 3608, 3796
Ecology of biological invasions 2953
Entomological Society of Manitoba 1095
Entomological Society of Saskatchewan 1095
Ethiopian Crop Protection Symposium 3421
First international symposium on adjuvants for agrochemicals 1163
Genetic manipulation in plant breeding 2269-2270
German crop protection conference 1548-1549, 1551-1554, 1556, 1568, 1577, 1579, 1583-1584, 1587, 1630-1632, 1635-1636, 1640-1642, 1649, 1651, 1708, 1745, 1755, 1814, 1817, 1821, 1844, 1867, 1889, 1907, 1911, 1949, 1958, 1972, 1977, 1997, 2002
Integrated pest control in citrus groves 3795
International conference on plant protection in the tropics 3420
International Grassland Congress 1856, 2424-2425, 2534-2535
International Institute for Sugar Beet Research, 49th winter congress 1607, 1609-1622, 1699, 1758, 2000
International symposium on aquatic weeds 96-106, 124, 133, 151, 153, 160, 166, 168-182, 197, 261, 267, 278, 416, 418, 420-427, 450, 464, 466, 483-484, 488-490, 494, 511, 704, 725, 728, 733, 757, 759, 762
International symposium on biological control of weeds 2855, 2866-2868, 2871-2874, 3081-3084, 3086-3103, 3106-3108, 3111-3113, 3115-3118, 3180, 3584-3586, 3677-3703, 3707, 3711-3715, 3794
International symposium on plant hygiene in tropical agriculture 575
New Zealand Weed and Pest Control Society 1210, 1218, 1276-1280, 1283, 1285-1287, 1295, 1299, 1304, 1318, 1325, 1328-1329, 1332, 1335, 1337, 1346, 1348-1349, 1351, 1415, 1425, 1449, 1458, 1530, 1539, 1723
North Central weed control conference 2365, 2370, 2372, 2390, 2393, 2445-2447, 2449-2451, 2458-2461, 2470, 2472, 2483-2484, 2509, 2511-2514, 2516-2517, 2567, 2604-2606, 2609, 2615-2616, 2623-2624, 2627, 2639-2640, 2650-2652, 2654, 2657-2660, 2663-2665, 2667-2668, 2692, 2712-2714, 2730-2732, 2734-2735, 2741-2742, 2744-2747, 2762, 2767, 2804, 2914, 2921, 2932, 2941-2942, 2944, 2946, 2966, 2981-2993, 3012-3013, 3028, 3154-3155, 3178, 3210, 3219-3220, 3244, 3268, 3271, 3280, 3285, 3361, 3372, 3436, 3466-3467, 3474-3475, 3545-3546, 3580, 3583, 3594, 3616, 3659, 3666, 3724-3728, 3732, 3734, 3738-3739, 3741, 3750-3752, 3766-3768, 3776
Northeastern Weed Science Society 44, 66-67, 69, 73, 84-86, 88-91, 93-95, 109, 111-113, 115, 207, 248, 263, 283, 285, 296, 300-301, 311-315, 317, 329-330, 332-333, 335-

Conferences *cont.*
Northeastern Weed Science Society *cont.* 343, 358-360, 373-374, 377-378, 380, 382, 386, 389-391, 393, 395-397, 399, 402, 406, 415, 428-429, 443, 524, 535, 645, 648, 661-662, 670-671, 674-675, 677, 679, 952-957, 984, 1261-1263, 1365, 1455, 1478, 1666, 1720, 1959, 2003
Nutsedge symposium 2054, 2124-2125, 2139, 2166, 2206, 2208, 2251, 2257
Photoperception 583
Plant growth regulators 1369-1375, 1462
Plant growth regulators in agriculture 2345
Potentials for extracting protein, medicines and other useful chemicals 2004
Quantification, nature and bioavailability of bound pesticide residues in soils, plants and food 3422
Short-lived isotopes in biology 576
South African Society of Crop Production 1212
Southern Weed Science Society 28, 40-43, 45, 65, 146-147, 152, 203, 221-224, 234, 236-237, 240, 246, 249, 251-257, 269-270, 1196-1197, 1201-1204, 1211, 1227-1232, 1234-1243, 1253, 1275, 1297, 1302-1303, 1308-1310, 1312-1315, 1324, 1326-1327, 1331, 1333-1334, 1339-1342, 1344, 1350, 1411-1412, 1416, 1453-1454, 1467, 1564, 1602, 1637-1638, 1645, 1681, 1687-1689, 1695, 1698, 1700-1702, 1705-1707, 1714-1715, 1721, 1724-1736, 1741-1742, 1752, 1822, 1950, 1973, 1981, 1984, 1986, 2377, 2382, 2391, 2439-2440, 2442-2444, 2448, 2462-2463, 2465, 2477, 2495, 2519, 2550, 2580, 2587-2588, 2637, 2693, 2743, 2764-2766, 2768, 2806, 2817, 2821, 2839-2840, 2864, 2870, 2885-2886, 2902, 2937, 2964, 3030, 3043, 3054, 3057-3058, 3074, 3120-3121, 3124-3127, 3137-3139, 3156, 3186-3187, 3435, 3472-3473, 3478-3480, 3490-3492, 3504-3509, 3518-3521, 3735
Soybean in tropical and subtropical cropping systems 2394-2397, 2641
Studies of pesticide transfer and performance 2763, 2882-2883, 2943
Swedish weed conference 277, 288-293, 431-433, 577, 3423, 3433, 3446-3448, 3452, 3459, 3524-3525, 3538, 3582, 3588-3590, 3593, 3745, 3755, 3758, 3782, 3786
Treatment and disposal of pesticide wastes 1499-1505, 1509-1510, 1515, 1521, 1526-1527, 1541, 1960
Weed control in fruit crops 658-660, 663-669, 682-687, 706, 709-710, 712, 716, 856, 1316, 1507
Weed control in permanent pasture 1652, 1654-1658, 1674-1679
Weed Science Society of America 2054, 2124-2125, 2139, 2166, 2206, 2208, 2251, 2257, 2955
Western Society of Weed Science 1546, 1555, 1557-1560, 1570-1573, 1578, 1589, 1591, 1595-1597, 1633, 1639, 1668-1669, 1673, 1680, 1682, 1684-1686, 1696, 1709, 1737-1740, 1744, 1747, 1749, 1762, 1787, 1808-1809, 1811, 1858, 1898, 1900, 1913, 1948, 1967, 1970, 1976, 1987, 1989, 2005, 2063, 2077, 2080, 2085, 2093, 2102, 2107, 2327, 2351, 2359, 2418-2421, 2467, 2494, 2536, 2608

Conferences *cont.*
Yugoslav Weed Science Society 2017, 2022, 2134-2135, 2137, 2145, 2147, 2151, 2164, 2170, 2174, 2186-2188, 2193-2195, 2197-2198, 2200, 2203-2204, 2238, 2246, 2248, 2338-2340, 2346, 2356, 2364, 2374-2375, 2392, 2401-2404, 2410, 2719, 2733, 2737, 2750-2754, 2757-2758, 2815, 2829
Conium maculatum 439, 1354
Convallaria majalis 441
Convolvulus 3554, 3626
Convolvulus arvensis 2104
biology
genotypes 709
photosynthesis 1900
physiology 1900
vegetative propagation 1367
control
biological control, insects 3079, 3712
chemical control 1219, 3440, 3456
atrazine 885, 891, 2105, 3211
bentazone 2072, 2105, 3514
bromoxynil 2031
butachlor 2976
chlorotoluron 16, 2976
chlorsulfuron 2031
chlorthiamid 710
2,4-D 710, 862, 915, 1744, 2031, 2072
dicamba 310, 681, 2031, 2072
diquat 709
glyphosate 1744, 2105, 2554, 2885-2886, 3576
hexazinone 2418
imazapyr 2743
MCPA 681, 2031, 2104
methabenzthiazuron 2976
metsulfuron 1747, 2648
norflurazon 1709
oxadiazon 947
prodiamine 678
simazine 2105
terbumeton 2105
terbuthylazine 2105
terbutryn 891
thiobencarb 2976
herbicide application
physiology 1114-1115, 2886
tolerance 1907
ecology
biotypes 3594
competition 3298
distribution 1023, 1822, 2193
habitats 1023
nutrient uptake 3298
hosts of plant diseases 2554
hosts of plant pests 2238, 3079, 3333, 3337
seeds
contamination 3278
germination 1747
production 1747
usage, crops, tree fruits 681
Convolvulus sepium (*see Calystegia sepium*)
Conyza 2373
Conyza canadensis 69, 391, 672, 677, 685, 756, 918, 1241, 1474, 2437, 2582, 3132
Conyza linefolia 1432
Copper sulphate 418, 985
Copyralid, physiology, metabolism, carbohydrates 805
Corchorus acutangulus 2409
Corchorus aestuans 898
Cordia alliodora 2118
Corispermum declinatum 2142
Cornus 1334, 2449
Cornus florida 112, 1331, 2451, 2749
Cornus sanguinea 3243
Cornus sericea 3244
Coronopus 2405
Coronopus didymus 345, 477, 1207, 1776, 2373

Cortaderia jubata 1311, 1335
Cortaderia selloana 1335
Corydalis sempervirens 2595, 3129
Corylus 2742, 3249
Corylus cornuta 2745, 2747
Cotton
herbicide application
damage 52, 364, 2068, 2408
drift 2408
genetics, chromosome aberrations 3369
physiology 206, 513, 1463, 1886, 2253, 3365
quality 811, 2998
residual effects 2054, 2351
seed treatment 52
selectivity 364
susceptibility 283
tissue culture 216
varietal susceptibility 52
yields 925, 1211, 1266, 2069, 2351, 2408, 2998, 3229
weed control 922
biological control, nematodes 2870
chemical control 587, 638, 1265, 3187
alachlor 3229
atrazine 1638
butralin 925
chlorazifop 3517
cinmethylin 236
cloproxydim 3519
dalapon 921, 924
dicamba 2710
diethatyl 3229
dinitramine 925
dipropetryn 923
diuron 3516
DSMA 1639
EPTC 921
fenoxaprop 3517
fluazifop 2998, 3517, 3519
fluchloralin 925
fluometuron 811, 921, 923, 2016, 2998
fluridone 51
glyphosate 921, 3518
haloxyfop 3517, 3519-3520
linuron 2016
MSMA 1639, 2016, 3516, 3520
norflurazon 3520
oxyfluorfen 1638
paraquat 2710
pendimethalin 2998, 3520
profluralin 925
propazine 1638
quizalofop 3435, 3519, 3521
sethoxydim 2998, 3517, 3519-3520
trifluralin 51, 921, 923, 925, 2016, 2998, 3520
cultural control 925, 1980
hoeing 924, 1815, 2409
manual weed control 2409
economics 1170, 2998
integrated control 924, 1098
management
cropping systems 1048
rotations 1048
recommendations 2122
weeds
competition 1037, 1211, 1815, 2352, 2516, 2783, 2805-2806
crop losses 2352, 2783, 2806
distribution 1827, 2526
hosts of plant diseases 1864
hosts of plant pests 2841, 3335
surveys 752, 1827, 2644
yields 1037, 1211, 1815, 2805
Cotton (weed) 2710
Cowpeas
herbicide application
germination 3221
growth 3221
nodulation 3221
Cranberries 671, 2735
Crassocephalum crepidioides 2531, 2533
Crassocephalum montuosum 2526
Crataegus 2851
Crataegus monogyna 2770
Crepis capillaris 2263
Crepis tectorum 69, 3099
Cress 161, 1185, 3729
Crops
cereals 3, 164, 260, 870, 1823, 2023, 2181, 2191, 2209, 2357, 2644, 3311, 3421, 3445
fibre plants 3421
forests 68, 79, 697, 980, 1044, 1720, 1981, 2439-2440, 2443, 2644, 2955, 3428
grasslands 929, 1044, 1424, 1663, 1770, 2527, 2534, 2644, 2720, 2955, 3312, 3532-3535, 3537, 3541, 3715
herbicide application
breeding for herbicide resistance 1637, 2270, 2581, 2889, 3136
damage 1105, 3020
physiology 1105, 1907
recommendations 851
safeners 2765
statistics 2697
susceptibility 1907
tolerance 1637, 2414
varietal susceptibility 863
yields 981, 2697
lawns and sports turf 70, 655, 1306-1307, 2955, 3567-3569
legumes 2417, 2644, 3493, 3534-3535
oil plants 2644, 3421
ornamentals 68, 2955, 3559-3560, 3562-3563
plantation crops 963
rangelands 938, 1343, 2725, 3091, 3101, 3238, 3284, 3540, 3679, 3707, 3714
small fruits 660, 1711, 2644, 3542
tree fruits 660, 1507, 1529, 1710, 2643, 3574, 3787
true fruits 3421
vegetables 1415, 1690, 2644, 3059, 3421, 3542
weed control
biological control
fungi 1100
insects 1100
chemical control 1716, 2442, 3481, 3493, 3535, 3542
alachlor 3242
2,4-D 964, 1100
dalapon 3264
diuron 964
DSMA 964
fluchloralin 3242
glyphosate 964
linuron 2689, 3264
methabenzthiazuron 3242
MSMA 964
paraquat 964, 1100
penoxalin 3242
prometryn 2689, 3242
simazine 3264
trifluralin 2689, 3264
chemical vs. cultural weed control 1741
cultural control 68, 1716, 2442, 3481, 3493
cultivation 3264
direct sowing 3534
harrowing 3534
manual weed control 2689, 2997
mowing 963
mulching 971
ploughing 1191, 3534-3535
rotary cultivation 1191, 3534
economics 68
integrated control 78, 1548-1549, 3481-3482
management 2018
cover crops 971
cropping systems 971, 1187
grazing 971, 2440
minimum tillage 1191, 3534-3535
no-tillage 1348
Crops *cont.*
weeds
allelopathy 1045
competition 1348, 1735, 1818, 2448, 2519, 2819
crop losses 3188
harvesting losses 3786
parasitic weeds 1861
seeds 2819
yields 690, 1045, 2448, 3786
Crotalaria 2467
Crotalaria alata 2467
Crotalaria anagyroides 845
Crotalaria argyrolobioides 2467
Crotalaria quinquefolia 2467
Crotalaria retusa 2467, 2772
Crotalaria spectabilis 2467, 2772
Croton bonplandianum 149
Croton capitatus 1730
Croton trinitatis 1281
Cruciferae 942, 1062, 1420, 2790
Cryptomeria japonica 3348
Cuba, flora 138, 2537
Cucumbers
bioassays 1150, 2428
herbicide application
damage 548, 812, 1471
germination 1118, 2569
physiology 529, 812, 1471, 3719
residual effects 548
residues 1950, 2071
safeners 2730-2731
seed treatment 1118
tolerance 1471, 2428
water stress 2731
yields 1950
weed control
chemical control 3544
cinmethylin 1688
ethalfluralin 1471, 1698
fluazifop 1950
paraquat 1698
trifluralin 1300, 2097
weeds
allelopathy 1046, 3300
competition 3060, 3300
soils 3300
yields 3060
Cucumis melo 1471, 2431
Cucurbita 1471
Cucurbita texana 1697
Cucurbitaceae 949, 1062
Cupressus macrocarpa 1328
Cuscuta 1690, 1830, 1859, 2832
Cuscuta arvensis (*see Cuscuta campestris)*
Cuscuta campestris 1092, 1665, 2421, 3668
Cuscuta chinensis 1058
Cuscuta epithymum 3328, 3626, 3668
Cuscuta gigantea 1394
Cuscuta gronovii 504, 2735
Cuscuta indecora 1665, 2421
Cuscuta lupuliformis 772
Cuscuta odorata 1863
Cuscuta reflexa 187, 2553, 2837
Cuscuta salina 1406
Cuscuta trifolii 3328
Cuscuta violaceus 2225
Cyanate, methyl isothio- 1694, 3157
Cyanazine
analytical methods
gas chromatography 2911
gas liquid chromatography 1933, 1944
immunoassay 1944
mass spectrometry 2911
formulations
aqueous concentrates 2623
flowables 2623, 3776
wettable powders 2623
physiology
mode of action 1432
photosynthesis 3141
stomata 3141
translocation 3141
residues, water 1485, 2911
soils
leaching 1485
persistence 2009, 2012
runoff 1485, 2911
toxicology, disposal 552

Cyanazine *cont.*
usage
application, methods 3776
climate 38, 3776
crops
cereals 2, 12, 312-313, 318, 589, 894, 1592, 2623, 2672, 2904, 3141, 3441-3442, 3475
fibre plants 2069, 2122
legumes 2, 38, 44, 1598, 2069, 2383, 2980
vegetables 374, 1299
damage 38, 2383, 2980
diseases 2412
irrigation 1299
no-tillage 318
quality 634
synergism 2904
weeds 495, 712, 2463
Cycloate 350
analytical methods, bioassays 281
physiology, cytology, cell membranes 800
residues
plant residues 3011
soils 1620
soils
degradation 1508, 2604, 3766
moisture 281
persistence 281, 1508
temperature 281
usage
additives 2604
application, methods 314
crops
cereals 314-315
rangelands 3237
root crops 633, 911, 1257, 1607, 1620, 1627, 2057, 2700, 2706, 3510
vegetables 3011
damage 1620
mixtures 1627, 2700
rescue crops 281
residual effects 1508
safeners 3237
yields 2700, 3011
Cyclohexene-1-one, 2[1-(ethoxyimino)butyl]-3-hydroxy-5-(2*H*-tetrahydrothiopyran-3-yl)-2- 2984
Cyclohexen-1-one, 2-[1-(ethoxyimino)butyl]-3-hydroxy-5-(2*H*-tetrahydrothiopyran-3-yl)-2- 2010
Cycloxydim
physiology, translocation 285
usage
additives 284
crops
oil plants 1631
ornamentals 389
root crops 1631
damage 380
rates 285
weeds 429
yields 380
Cynara scolymus 3684
Cynareae 3100
Cynodon dactylon
biology, composition 1391
control
chemical control
benthiocarb 898
butachlor 325, 898, 2976
butylate 1267
chlorazifop 2694
chlorotoluron 2976
dalapon 924
fluazifop 1707, 1744, 2407, 2694, 3228
fluchloralin 64
glyphosate 837, 1714, 2462, 2694, 3576
haloxyfop 1707, 3228
methabenzthiazuron 2976
oryzalin 1707
oxadiazon 325, 898
paraquat 1714
pendimethalin 898
prodiamine 678
quizalofop 3521

Cynodon dactylon *cont.*
control *cont.*
chemical control *cont.*
sethoxydim 1669, 1707, 2694, 3228
thiobencarb 325, 2976
cultural control
cultivation 2694
cutting 2462
hoeing 898, 2409
manual weed control 898, 2409
solarization 3026
herbicide application, resistance 74
management 1429
non-crop weed control
canals 2751
rivers 2751
ecology
competition 1766, 2059, 3301
habitats 2822
phenology 1429
soils 2521
spread 1429
synecology 2521
herbicide application
damage 400, 1314
susceptibility 2102
hosts of plant diseases 1083, 3669
seeds
depth of burial 1359
dormancy 1001
germination 1001, 1429
temperature 1359
predation 1766
production 1429
soils 3026
weed control
chemical control
atrazine 1701
chlorthal-dimethyl 1308
2,4-D 1308
DSMA 1315, 2766, 2768
fenoxaprop 1313, 1700
glyphosate 1701, 2766, 2768
imazapyr 2743, 2766
imazaquin 1315
mecoprop 1308
metribuzin 1308
MSMA 1308, 1315
oxadiazon 1308
quizalofop 2768
simazine 1701
sulfometuron 1701
terbutryn 2768
weeds
hosts of plant pests 2845
tolerance 1306
Cynodon dactylon* × *C. transvaalensis 958, 1309
Cynoglossum officinale 731
Cynomorium 2850
Cyometrinil 3237
Cyperquat, toxicology, laboratory animals 1956
Cyperus
biology, photosynthesis 183
control
chemical control 1228, 2646
bentazone 321, 1593
benthiocarb 1593
butachlor 321, 325
cinmethylin 365
2,4-D 321
ethofumesate 365
imazapyr 1730, 2745
MCPA 321, 1593
molinate 321, 1593
oxadiazon 325
oxyfluorfen 321
pebulate 365
pendimethalin 321
propanil 1593
sulfometuron 1730
thiobencarb 321, 325
triclopyr 1593
cultural control, mulching 1634
ecology
light 183
nutrient uptake 183
water relations 183
hosts of plant pests 2846

Cyperus brevifolius 1018
Cyperus difformis 617, 901, 1051, 2530, 2800, 2905, 3357-3358, 3486
Cyperus esculentus
biology 1751, 2206
genetics 123
genotypes 123
growth rate 3623
life cycle 2139
morphology 2139
physiology 123
tubers 123, 3623
control
biological control
fungi 1454-1455
insects 1098, 2251
pathogens 2251
reviews 2251
viruses 2251
chemical control 2646, 2699, 2985
acetochlor 3252-3253
acifluorfen 1455
alachlor 1607, 3229, 3253, 3508
ametryn 3252
atrazine 1607
bentazone 1098, 1455, 1607, 3274, 3508
cycloate 1607
2,4-D 3252
di-allate 1607
diethatyl 3229
dinoseb 3508
diphenamid 1695
diuron 3252
EPTC 1607
ethofumesate 1607
fluazifop 1695
fluridone 3274
glufosinate 2461
glyphosate 435, 992, 1098, 1607, 2461
haloxyfop 3508
imazaquin 1455
ioxynil 3252
linuron 334
metazachlor 1607, 3253
metolachlor 1607, 1695, 3253, 3508, 3531
metribuzin 1695
napropamide 1695
naptalam 3508
oryzalin 3508
oxyfluorfen 992
paraquat 3252
sethoxydim 1695
simazine 435
vernolate 1607
cultural control 3531
herbicide application, physiology 435, 2257
integrated control 1098, 1455, 1751, 2124-2125
ecology
allelopathy 2166
colonizing ability 2206
competition 2166
distribution 2035, 2206
ecotypes 2139
spread 2206, 3531
seeds
population 123
viability 123
Cyperus iria 36, 721, 2378, 2381, 2800, 3486
Cyperus kyllingia 1018
Cyperus microiria 2905
Cyperus procerus 902
Cyperus rotundus
biology 2206
growth rate 1040
life cycle 2139
morphology 2139
physiology 1017
tubers 1017
vegetative propagation 1750
control
biological control 1750
fungi 2245
insects 1098, 2251
pathogens 2251
reviews 2251

Cyperus rotundus *cont.*
control *cont.*
biological control *cont.*
viruses 2251
chemical control 896, 1750, 2044
alachlor 2371
amitrole 3579
atrazine 2371
bentazone 1098
benthiocarb 898
bromacil 3579
butachlor 898
chlorimuron 2435
2,4-D 1353, 2371, 3579, 3591
dalapon 3579
diuron 3570
EPTC 1296
fluchloralin 64
fluridone 51
glufosinate 1353, 2461
glyphosate 1098, 1353, 2461, 3032, 3576, 3591
imazapyr 2435
MCPA 3579
metham 3579
metolachlor 1353
MSMA 1353, 3032
oxadiazon 898
oxyfluorfen 3570
paraquat 3570
pendimethalin 898
propachlor 1353
simazine 3570
sulfometuron 2435
2,4,5-T 1353
TCA 1353
trifluralin 51, 1296
cultural control 1750
direct sowing 2381
hoeing 898, 2409
manual weed control 898, 2371, 2409
mulching 2371
ploughing 2371
herbicide application
physiology 220, 2257, 3032
resistance 74
integrated control 1098, 2124
ecology
allelopathy 2166
colonizing ability 2206
competition 1040, 2059, 2166, 3060, 3301
distribution 2206
ecotypes 1017, 2139
phenology 1430
spread 2206
hosts of plant pests 2240, 2371
seeds, contamination 1830
Cyperus sesquiflorus 3484
Cypressus arizonica 3564
Cytisus scoparius 1426, 2496
Cytokinins 2875
Czechoslovakia
flora 479, 729, 748-749, 1382-1384
herbicides, legislation 3177
surveys 747
weed control, recommendations 3470
2,4-D
analytical methods 225
gas chromatography 538, 1486, 1502, 1509, 1921, 1923, 2283
gas liquid chromatography 1502
mass spectrometry 1921
spectrometry 1936
chemistry, structure 809
formulations 1510, 2283
controlled release 1162
physiology 2578, 3591
absorption 2588, 3716
cytology, binding site 210, 225
degradation 210, 225, 1106, 2258, 3729
exudation 825
genetics 3135, 3736
germination 1648
metabolism 1106, 2588
alkaloids 1282
amino acids 225, 2359, 3135, 3137
ammonia 220

2,4-D *cont.*
physiology *cont.*
metabolism *cont.*
carbohydrates 225, 643
carotenoids 802
chlorophyll 802, 1648
enzymes 225, 801
lipids 2258, 3137
nucleic acids 3137
nutrients 3119
peptides 225
proteins 210, 643, 806, 1134, 2359, 3119, 3137
morphology 306, 1648
nitrogen fixation 3401
photosynthesis 1903, 3137
respiration 801
translocation 210, 2258, 2588
uptake 2588, 3119, 3716
residues
plant residues 225, 877, 3251
soils 3151, 3251
water 1485-1486, 1961, 3151
soils
adsorption 554, 2929, 3760
aquatic environment 802, 825
cation exchange 3760
chemical degradation 1486
degradation 245, 825, 1505, 1509-1510, 3760
leaching 1485, 3760
microbial activities, enzymes 2366, 3770
microbial degradation 1510, 1961-1962, 1971, 2614
microorganisms 1510
algae 3401
bacteria 245
cyanobacteria 3401
fungi 245
moisture 1161, 1962, 2936
persistence 1509-1510
pH 802, 825, 1962
photolysis 1966
runoff 1485, 3162
simulation models 2909
structure 2936
types 245, 1962, 3760, 3770
vaporization 1509, 3760
toxicology
carcinogens 3394
disposal 552, 1502, 1505
mammals 3394
man 1952
mice 3390
teratogens 3394
usage
additives 1736, 2464
antagonism 3137
application
equipment 1159, 2748
methods 436, 567, 711, 839, 2634, 2722, 2749, 3583
applications, methods 3256
aquatic weeds 700, 2453, 3269
cold tolerance 2026
compatibility
fertilizers 607, 867, 2258, 3119
fungicides 1962
growth regulators 867, 1199
herbicides 2660
insecticides 607, 1962
crops
cereals 17, 26, 37, 295-296, 300, 305-306, 320, 371, 470, 600, 602, 604, 606-607, 616, 711, 867, 877, 881, 889-890, 892, 894, 901, 1035, 1134, 1161, 1196, 1199, 1202, 1208, 1213, 1217, 1562, 1565, 1567, 1590, 1648, 2020, 2026, 2031, 2036, 2039, 2047, 2363-2364, 2366, 2368-2369, 2371, 2373, 2379, 2652, 2656, 2661-2662, 2669, 2671, 2677, 2681, 2683, 2967, 3195, 3367, 3439, 3444, 3473, 3483
culinary herbs 974
fallow 299, 939

2,4-D *cont.*
usage *cont.*
crops *cont.*
fibre plants 2122
fodder crops 1217, 1662, 2652
forests 92, 410, 412, 979, 1327, 1338, 1341, 1724-1725, 1736, 1740-1741, 2115, 2117, 2440, 2444, 2447, 2450, 2748, 3256, 3579
grasslands 54, 369, 930-931, 937, 1279-1280, 2072, 2415, 2634, 2719, 3235, 3538-3539
lawns and sports turf 397, 957, 1308-1309, 1314, 2102, 2434
legumes 371, 1196, 1671, 1673, 3195
medicinal herbs 973
plantation crops 78, 964, 972, 1100, 2110, 3252, 3709
rangelands 61, 1282, 1682, 1686, 1993, 2426
root crops 360, 914, 2062, 2652, 3195
small fruits 666, 756, 2436
tree fruits 677
vegetables 915, 939, 1288
damage 306, 602, 604, 643, 1288, 1294, 1341, 1580, 1736, 2068, 3012, 3201, 3473, 3483
diseases 1574
economics 78, 964, 1993, 2047, 2748-2749, 3439
grasslands 2722
green manures 2048
mixtures 111, 1339, 1344, 1682, 1740, 1962, 2464, 3201, 3444
no-tillage 3162
non-crop weed control 111, 114, 2456, 2464, 2751, 2767
parasitic weeds 502, 2836
persistence 3251
pests 783
poisonous weeds 439, 1282, 1757
quality 369
residual effects 109
resistance 3367
sequences 710
sward renovation 1678, 3539
tissue culture 535, 2263, 3730
weeds 708, 712, 862, 984, 988, 1353, 2463, 3591
wetters 2456
woody weeds 92, 1331, 1339, 1724-1725, 2464, 2634, 2722, 2748-2749, 2753, 3191
yields 22, 26, 306, 881, 930, 2047, 2062, 2359, 2683, 3012
Dacrydium cupressinum 975
Dactylis glomerata 158, 361, 373, 1275, 1340, 1655, 1662, 1993, 2078, 2424, 2427, 3002, 3539, 3576, 3646
Dactyloctenium aegyptium 1776, 1843, 2240, 2976, 3209, 3494, 3521
Dalapon
analytical methods, liquid chromatography 2282
physiology
absorption 3127
translocation 3127
residues 1491
soils 2607
water 2607
soils
degradation 1317, 2750
microbial degradation 2607
microorganisms 2750
movements 2607
persistence 1317
toxicology
disposal 1491
environmental pollution 1491
sheep 1494
usage
aquatic weeds 2750
compatibility, herbicides 3127
crops
cereals 35, 1593
culinary herbs 974

Dalapon *cont.*
usage *cont.*
crops *cont.*
fibre plants 920-921, 924, 2070
fodder crops 1283
forests 1741, 2440, 2449-2450, 3264, 3579
grasslands 933, 2073, 2076
medicinal herbs 973
plantation crops 967, 969, 972, 3250
root crops 911, 914
small fruits 671, 676, 1317
tree fruits 676, 2109
vegetables 915
damage 671, 967
diseases 2567
non-crop weed control 2754
rates 924
weeds 2481, 3031
yields 671
Daminozide 3177
Danthonia spicata 402
Datura 1543, 1603
Datura ferox 718, 2532
Datura metel 1531, 1836
Datura stramonium 1227, 2511
biology
anatomy 2131
development 2131
identification 3189
meristems 1440
physiology 1440, 3662
roots 2131
shoots 2131
control
chemical control 335, 343, 1231, 2390
acifluorfen 339-340, 342, 1603, 2692
alachlor 336, 1295
bentazone 339-340, 1603, 2692
bifenox 3530
butylate 3530
chloramben 1295, 1603
chlorbromuron 3530
dinitramine 1295
fenuron 3530
fomesafen 1603
haloxyfop 336, 3530
imazaquin 336, 340
linuron 334, 339-340, 342
mefluidide 2692
metolachlor 336
metribuzin 339, 342, 1603
pendimethalin 336
prometryn 3530
trifluralin 1603
ecology
allelopathy 1045
competition 330
distribution 2035, 2200
nutrient uptake 2177
seeds
production 2177
size 2177
utilization 2638
Daubentonia drummondii 1793
Daubentonia punicea 1793
Daubentonia virgata 1793
Dazomet 669
residues, soils 3157
soils
degradation 3157
moisture 3157
temperature 3157
usage
crops, vegetables 1694, 3015
quality 3015
2,4-DB
analytical methods
gas chromatography 1921
mass spectrometry 1921
physiology
absorption 2588, 2881
degradation 2881
histology, morphology 2568
metabolism 2588, 2881
enzymes 2568
mode of action 1432
translocation 2588, 2881
2,4-DB *cont.*
physiology *cont.*
uptake 2588
residues, plant residues 934
usage
approval schemes 3177
crops
cereals 1211
fibre plants 1211
fodder crops 934, 1667, 2969
forests 80
grasslands 2078
legumes 1211, 1244, 1671-1672, 2080, 2386, 2699, 2721, 2969, 2983, 3505, 3509
damage 1672, 3505, 3509
economics 1244, 3509
energy conservation 1244
mixtures 2699, 2983
quality 3505
weeds 989
yields 2969, 3505, 3509
Defoliants 3784
Delphinium consolida 2019, 2181
Dendrophthoe falcata 764
Dennstaedtia punctilobula 88, 1818
Deschampsia cespitosa 2187, 2239
Deschampsia flexuosa 2239, 3004
Descurainia pinnata 1560, 2419, 2652, 2966
Descurainia sophia 1668, 1709, 1770, 2183, 2529
Desmedipham
physiology
mode of action 1432
photosynthesis 229
usage
crops
cereals 53
ornamentals 392
root crops 1633
mixtures 1633
Desmetryn
chemistry, structure activity relationships 1124
formulations
controlled release 1522
wettable powders 1522
physiology, metabolism, enzymes 1124
residues
plant residues 1291
soils 1290, 2087
usage
crops
fodder crops 2997
vegetables 1290-1291, 3547
quality 2997
yields 2997
Desmodium canum 644
Desmodium tortuosum 338, 1227-1228, 1244, 3504-3507
Developing Countries, weed control, education 2959
Di-allate
residues, soils 1620
usage
crops
legumes 1598
root crops 1607, 1619-1620, 1625
damage 303, 1620
mixtures 1625
yields 303
Dianthus caryophyllus 3561
Dicamba
analytical methods
gas chromatography 1921, 1923, 1934
liquid chromatography 1934
mass spectrometry 1921
physiology
histology, morphology 2568
metabolism
alkaloids 1282
amino acids 2359
enzymes 2568
proteins 2359
mode of action 1432
soils
microbial degradation 2938
moisture 1161
Dicamba *cont.*
soils *cont.*
respiration 2938
usage
application, methods 592, 711, 2333, 2749, 3268, 3583
compatibility
fertilizers 25, 867
growth regulators 867
herbicides 2660
crops
cereals 290, 295-296, 300, 305, 592, 602, 711, 867, 886, 1035, 1161, 1202, 1567, 1590, 2020, 2031, 2373, 2459, 2652, 2656, 2666, 2669, 3195, 3439, 3443-3444, 3448, 3460, 3475
fibre plants 2122
fodder crops 2652
forests 92, 1327, 1338, 1341, 1724, 1727-1728, 2117
grasslands 931, 1657, 2072, 2077, 2415, 3538-3539
lawns and sports turf 397, 957, 2434
legumes 3195
rangelands 1282, 1686
root crops 360, 1616, 2652, 3195
small fruits 661, 2436
vegetables 1286
damage 87, 311, 602, 673, 1294, 1341, 3012, 3201, 3460
diseases 1574
economics 2749, 3439
mixtures 1339, 3201, 3444
poisonous weeds 439, 1282
rates 592
residual effects 109
sward renovation 3539
weeds 708, 984, 988-989, 2710
woody weeds 92, 1331, 1339, 1724, 1728, 2749, 3268
yields 311, 2359, 3012
Dichlobenil
usage
crops
culinary herbs 3016
small fruits 671, 2735
damage 671
parasitic weeds 2735
residual effects 3016
safeners 3580
weeds 706
yields 671
Dichloralurea
usage
crops, root crops 1627
mixtures 1627
Dichlormid 2604, 3237
usage
application, methods 2627
incorporation 2627
residual effects 1508
Dichlorprop
analytical methods
gas chromatography 1921, 1923
mass spectrometry 1921
chemistry
structure activity relationships 1579
synthesis 3447
formulations 3447
soils, fertility 3450
toxicology, man 1952
usage
acid rain 1185
additives 1736
application, methods 2749
crops
cereals 15, 21, 289-290, 1225, 1579, 3439, 3443, 3447-3448, 3450
forests 92, 1341, 1734, 1736, 2444
grasslands 2719, 3538
lawns and sports turf 957
tree fruits 3249
damage 1341, 1734, 1736
economics 2749, 3439
weeds 984, 989

Dichlorprop *cont.*
usage *cont.*
woody weeds 92, 1734, 2749
yields 21, 3450
Diclofop
chemistry, structure 809
physiology
adsorption 517
cytology
cell membranes 1126, 2579, 3732
protoplasts 1126, 2579
metabolism 1126
translocation 517
water relations 1210
usage
additives 517, 2658
antagonism 2658, 2966, 3027
application, methods 567
compatibility
growth regulators 1210
herbicides 2660
crops
cereals 591, 881, 884, 1210, 1560, 1570, 2021, 2360, 2365, 2654, 2966, 3029, 3453
lawns and sports turf 398, 957
legumes 620
oil plants 1270-1271
damage 398, 1195, 1270
diseases 2412
interactions 3027
mixtures 1560, 1570, 2966, 3027
nodulation 1597
weeds 1000
yields 881, 1270
Diclofop-methyl
physiology, metabolism, chlorophyll 3221
usage
crops
cereals 1204
legumes 3221
nodulation 3221
weeds 108
Diethatyl
usage
crops
fibre plants 3229
vegetables 381
plant diseases 381
Difenopenten
physiology
cytology, mitochondria 2264
mode of action 2264
respiration 2264
Difenoxuron, physiology, cytology, chloroplasts 1472
Difenzoquat
physiology
translocation 799
uptake 799
usage
antagonism 2658
application, methods 567, 593
compatibility, herbicides 2660
crops
cereals 593, 1570, 2654, 3454
grasslands 2078
mixtures 1570
weeds 1000
wetters 593
Diflufenican 2646
chemistry, synthesis 2596
physiology, mode of action 2596
soils, persistence 2009, 2596
usage
crops, cereals 1568, 2596, 3449
safeners 2009
Digera arvensis 898, 3494
Digitalis lanata 1273
Digitalis purpurea 2235, 2468
Digitaria
control
chemical control 343, 3544
benfluralin 393, 395-396
bensulide 393, 396
butralin 672
chlorthal-dimethyl 393, 1308, 1313
Digitaria *cont.*
control *cont.*
chemical control *cont.*
2,4-D 1308
diuron 672
fenoxaprop 396, 1313
imazapyr 1730
linuron 341
mecoprop 1308
metribuzin 341, 1308
MSMA 1308
napropamide 672
oryzalin 672
oxadiazon 393, 396, 1308
pendimethalin 393, 396
prodiamine 393, 396
quizalofop 332, 3521
simazine 672
sulfometuron 1730
tridiphane 396
trifluralin 395
hosts of plant pests 2233
Digitaria adscendens (*see Digitaria ciliaris*)
Digitaria bicornis 2371
Digitaria ciliaris 220, 724, 1301, 1417, 2362, 2378, 2534, 3300
Digitaria decumbens 2819
Digitaria horizontalis 1594, 2042
Digitaria ischaemum 397, 428, 656, 956-957, 994, 1700, 2239, 3245
Digitaria sanguinalis
biology
development 146, 721
growth rate 721
life cycle 721
water relations 146
control
chemical control 37, 925, 1220, 1240, 1644, 2998
acetochlor 3469
acifluorfen 340, 1233, 1235
alachlor 27, 329, 910, 2964, 3469
alloxydim 620
amitrole 409
atrazine 2964, 3469, 3548
benfluralin 396, 910
bensulide 396
bentazone 340, 620, 1235, 2094
butralin 3548
butylate 561
carbetamide 3548
chlorazifop 620
chlorthal-dimethyl 662, 956-957
cinmethylin 329
2,4-D 957
dicamba 957
dichlorprop 957
diclofop 620, 957
dimefuron 3548
dinoseb 2964
dinoterb 3548
diphenamid 662, 1695
diuron 409, 3576
EPTC 561
ethalfluralin 3548
ethiolate 891
ethofumesate 394
fenoxaprop 396, 955-957
fluazifop 620, 1233, 1235, 1695, 3546, 3587
imazaquin 340, 1645
linuron 340, 2964
metham 110
metolachlor 1695, 3469, 3548
metribuzin 329, 394, 1695
monolinuron 3548
MSMA 956
napropamide 394, 662, 1695, 3576
naptalam 2964
neburon 3548
oryzalin 42, 3576
oxadiazon 394, 396, 903
oxyfluorfen 3546
paraquat 2094
pendimethalin 396, 957, 3548
prodiamine 396, 2107
propachlor 3548
propanil 903
Digitaria sanguinalis *cont.*
control *cont.*
chemical control *cont.*
prosulfalin 394
sethoxydim 620, 910, 1235, 1695
simazine 409
2,4,5-T 903
tridiphane 396, 955-957
vernolate 43, 910
cultural control
mulching 1110, 1634
solarization 3241
herbicide application, physiology 3126, 3587
management 2804
shading 358
non-crop weed control, roadsides 1365
species shift 27
ecology
allelopathy 162
competition 2804, 3244, 3642
distribution 162, 1827, 2437, 3626
population dynamics 2813
parasitic weeds 504
seeds
dormancy 110
germination 721
light 1365
stimulants 110
production 721
Digitaria scalarum 3233
Digitaria setivalva 2416
Digitaria smutsii 467
Dimefuron
usage
crops
legumes 2684-2687, 3548
oil plants 1641, 2410, 3230, 3522
damage 3548
selectivity 2684-2686, 3548
yields 3230
Dimethachlor, usage, crops, vegetables 2086
Dimethametryn, physiology, photosynthesis 532
Dinebra 2409
Dinebra retroflexa 898
Dinitramine
analytical methods, gas liquid chromatography 237
usage
application, methods 925
crops
fibre plants 925
legumes 3554
vegetables 1295
Dinoseb
analytical methods
gas chromatography 1921, 1923
mass spectrometry 1921
physiology
cytology, chloroplasts 1477
degradation 1477
metabolism 1605
carotenoids 3383
mode of action 1128
photosynthesis 1477
soils
microbial activities 560
enzymes 1155
nitrogen fixation 1155
respiration 1155
microorganisms
algae 2312
cyanobacteria 2319
types 1155
usage
application, methods 2333
crops
cereals 300, 1577
forests 2440
legumes 1240, 1598, 1605, 1671, 1692, 2050, 2684, 2687-2688, 2695, 2980, 3226-3227, 3414, 3503, 3505, 3508-3509
root crops 2061
vegetables 1297, 3013

Dinoseb *cont.*
usage *cont.*
damage 1598, 1605, 1692, 2980, 3227, 3505, 3509
diseases 2696
economics 3414, 3509
pests 3339
quality 3505
selectivity 2684
yields 1577, 3505, 3508-3509
Dinoterb
usage
crops
cereals 14
legumes 2685, 2687, 3548, 3550
medicinal herbs 1273
root crops 49
damage 1273, 3548
mixtures 1273
selectivity 2685, 3548
Diodia ocimifolia 966, 2112
Diodia virginiana 1309, 1314-1315
Dione, 3-hydroxycyclobut-3-ene-1,2- 1096
Dioscorea 580
Dioscorea floribunda 3254
Diphelypaea coccinea 2133
Diphenamid
usage
crops
fallow 939
forests 976
plantation crops 367, 1647
small fruits 659, 661-662, 664, 2733, 3021
tree fruits 659
vegetables 939, 1695, 2430
safeners 3580
yields 1695, 3021
Diplacrum caricinum 1838
Diplotaxis 3291
Diplotaxis erucoides 1269, 1271, 2242, 2413, 2554
Dipropetryn
physiology
germination 1118
penetration 1118
soils, temperature 1118
usage
application, methods 923
crops, fibre plants 923
Dipsacus sylvestris 477
Dipterocarpus 3266
Diquat
analytical methods 2299
chromatography 2597
electrolysis 1937
formulations, controlled release 97, 103
physiology
germination 1648
metabolism, chlorophyll 1648
morphology 1648
properties, photolysis 3152
residues, plant residues 2597, 3152
soils
adsorption 242
degradation 2309
humic acids 242
microorganisms, plant pathogens 3400
moisture 2309
movement 242
straw 3459
temperature 2309
toxicology
amphibia 3391
laboratory animals 1956
man 2299
usage
additives 2999, 3459
aquatic weeds 97, 103, 419, 700
crops
cereals 1648, 3459
fibre plants 363
forests 68
grasslands 1277
legumes 2092
oil plants 2999
ornamentals 68
root crops 1616
tree fruits 965
mixtures 1277
Diquat *cont.*
usage *cont.*
sward renovation 2422
Diuron
analytical methods
bioassays 2914
chromatography 540
gas chromatography 1142
physiology
cytology
binding site 2582, 2592
chloroplasts 528, 1891, 2582, 2592
metabolism
ammonia 220
carotenoids 804
chlorophyll 804
lipids 533, 804
mode of action 528, 533, 798, 1128, 1432, 2582
penetration 798
photosynthesis 227-228, 533, 804, 1474, 1891, 2914
translocation 3140
residues
plant residues 3251
soils 3251
soils
adsorption 242, 3763
degradation 2309, 3763
fertilizers 2935
humic acids 242
microorganisms, algae 2312
moisture 2309
movement 242
photolysis 2927
temperature 2309
toxicology
aquatic environment 239
aquatic organisms 2602
ecosystems 2600
environmental pollution 239
fishes 239, 2602
insects 3392
tests 3392
usage
antagonism 1889
compatibility, herbicides 3573
crops
cereals 798, 1563
culinary herbs 974, 3016
fibre plants 3516
forests 88, 2118, 2450, 3255
legumes 2080, 3554
medicinal herbs 973
oil plants 3230
ornamentals 1304, 3020
plantation crops 76, 78, 689, 964, 967-968, 970, 2111-2112, 3252, 3576
root crops 3191
small fruits 672, 676, 1304, 1703, 3570, 3573
tree fruits 73, 404, 409, 676, 687-688, 962, 1325, 2109, 3573, 3577
vegetables 1015
damage 689, 967, 1325
economics 78, 964, 2118, 3255
mixtures 3573
no-tillage 3577
non-crop weed control 2465, 2765, 2767
persistence 3251
rates 1304
resistant weeds 1474
synergism 1889, 3573
weeds 495, 712
yields 1563, 3016, 3230
DNOC
physiology
cytology
binding site 2582
chloroplasts 1474, 2582
mode of action 2582
usage
crops, cereals 24
damage 24
DPX-A5969 1513
Draba verna 996
Drymeria cordata 3600
Dryopteris marginata 2837
DSMA
usage
climate 1639
crops
fibre plants 1639, 2122
lawns and sports turf 1315
plantation crops 964
economics 964
non-crop weed control 2766, 2768
Durum wheat 1194, 1558, 1560, 2360, 2584
Echinochloa 35, 183, 323, 325, 344, 724, 885, 1006, 1226, 1271, 1593, 1910, 3343, 3469, 3494
Echinochloa colonum 3642
biology
development 721
growth rate 721
life cycle 721
taxonomy 1025, 1780
control
chemical control 37, 3250
alachlor 2395
bentazone 321
butachlor 321, 2682, 2976
chlorotoluron 2976
2,4-D 321
MCPA 321
methabenzthiazuron 2976
metobromuron 2395
metolachlor 2395
molinate 321, 2682
oxyfluorfen 321, 2395
pendimethalin 321, 2395, 2682
thiobencarb 321, 2976
ecology
distribution 1780
habitats 1776
origin 1780
seeds
germination 721
production 721
Echinochloa crus-galli
bioassays 744, 1109
biology
anatomy 2212
development 146
life cycle 2785
photosynthesis 1360
taxonomy 1025
ultrastructure 2212
water relations 146
control 3511
biological control
fungi 1872
insects 2234
viruses 1873
chemical control 320, 343, 364, 894, 1226, 1240, 1601, 1644, 2058, 2066, 2279, 2403, 2646, 2733, 2905, 3007, 3470
acifluorfen 339, 1603
alachlor 317, 648, 1271, 2921, 3372
alloxydim 48, 620
amitrole 409
atrazine 1872, 2036, 2040
bentazone 48, 321, 339, 620, 1603, 3514
bifenox 3530
butachlor 321, 2682, 3357
butylate 1643, 2040, 3530
chloramben 1603
chlorazifop 620
chlorbromuron 3530
chlorthal-dimethyl 662
cinmethylin 2921, 3372
2,4-D 22, 321, 901, 1562, 2020, 2036, 3473
dicamba 2020
diclofop 620, 1271
diethatyl 648
diphenamid 662
diuron 409, 3576
EPTC 1271, 2040
ethiolate 891
fenoxaprop 1672

Echinochloa crus-galli *cont.*
control *cont.*
chemical control *cont.*
fenuron 3530
fluazifop 48, 620, 834, 1271, 3543, 3566
flurochloridone 48, 1271
fomesafen 1603
haloxyfop 1672, 3530
linuron 339, 1271
MCPA 321, 2020
metazachlor 1271
metobromuron 1271
metolachlor 648, 2040, 2921
metribuzin 48, 339, 1263, 1603
molinate 321, 901, 2020, 2682
napropamide 648, 662, 3576
norflurazon 1709
oryzalin 648, 674, 3576
oxadiazon 901, 903
oxyfluorfen 321, 648
pendimethalin 321, 674, 1271, 2682
prodiamine 674, 678
prometryn 1643, 3530
propanil 34, 901, 903, 2020
quinclorac 1595
quizalofop 332, 1263, 1271, 1672, 3521
sethoxydim 620, 1271, 1672, 3473
simazine 409, 674
2,4,5-T 903
terbutryn 2040
thiobencarb 321
trifluralin 648, 1300, 1603, 1643, 2097, 2921, 3372
cultural control 1562, 2066
cultivation 2020
mulching 1110
solarization 3241
economics 638
herbicide application 638
physiology 1473
minimum tillage 22, 1562
ecology
allelopathy 161
competition 1034, 1261, 1410, 1613, 1812, 2066, 2167, 2352, 3244
distribution 2194, 2815, 3626
ecotypes 1433
habitats 1360
nutrient removal 1813
nutrient uptake 1034
origin 1433
phenology 2785
salinity 2796
temperature 2495
weed associations 2183
yields 1812
hosts of plant diseases 1083, 1873
hosts of plant pests 2234, 2239, 2846, 3076, 3078
seeds
germination 1360, 1433
inhibitors 3357
temperature 2774, 2785, 3606
production 722
seed dispersal 449
viability 2774
Echinochloa crus-galli **var.** ***oryzicola*** 1360, 2905
Echinochloa glabrescens 320-321, 2530
Echinochloa oryzicola *(see Echinochloa crus-galli* var. *oryzicola)*
Echinochloa oryzoides 1025, 2043, 3379-3380
Echinochloa picta 3293
Echinochloa pyramidalis 2231
Echinochloa stagnina 3293
Echinochloa utilis 220, 233, 611, 2274
Echinodorus 1847
Echinops 1109
Echium italicum 1026
Echium plantagineum 1026, 1456, 2566, 2858, 2947
Echium vulgare 354, 1026, 1385, 1822
Eclipta alba 321, 3686
Eclipta prostrata 1109, 3301
Economics
herbicides
Italy 3412
USA, California 842
USSR 1170
weed control 887, 2560, 2636
Australia 2724, 3785
Canada 1993
India 613, 3222
New Zealand 1530
Spain 3413
Sweden 3786
UK 3179
USA 2637
California 1529, 3445, 3787
Florida 2948
USSR 1170
Yugoslavia 2338, 2340
Education
Canada 3408
herbicide application, safety 2920
USA 3408-3411
Indiana 3178
Egypt
weed control
aquatic weeds 98
biological control 3353
organization of research 98
Eichhornia 2541
Eichhornia crassipes
biology
anatomy 2211
exudates 1361
flowering 1361
growth rate 1855, 2165
leaves 3605
life cycle 3622
morphology 3605
nutrients 1032
photosynthesis 463, 1855, 3605
physiology 497, 736, 1442, 1855, 1896, 3073
pollination 1361
roots 497, 2211, 2542
vegetative propagation 3622
water relations 497, 2165
control 273
biological control 2455, 3334
fungi 700, 2245, 2247, 2853, 2863
insects 163, 700, 785-786, 2755, 3698-3700
chemical control 2455
anilofos 425
2,4-D 425, 700, 2453, 3334
diquat 700, 3334
EPTC 1896
fluazifop 425
fluroxypyr 425
glyphosate 425, 699, 3334
haloxyfop 425
isoproturon 425
methabenzthiazuron 425
metoxuron 425
paraquat 425
thiobencarb 425
tridiphane 425
cultural control 2455
economics 2455
herbicide application, spray retention 699
integrated control 700, 785
non-crop weed control, ponds 785
recommendations 2454
ecology
air pollution 1836
decomposition 1032
distribution 179, 758
light 463, 2165, 3605
minerals 847
nutrient removal 2506
nutrient uptake 736, 2165
soils 847, 1032
spread 758, 2538
insect pests 771
minerals 151
nutrient uptake 151
Eichhornia crassipes *cont.*
utilization 266-267, 847, 1172, 1996, 2341, 2506, 2949, 3184, 3789-3790
Eichhornia paniculata 1853
Eichhornia speciosa *(see Eichhornia crassipes)*
Elaeagnus angustifolia 3564
Elaeagnus pungens 1303
Elaeagnus umbellata 82, 984, 2732
Elaeis guineensis 77-78, 964, 970, 1100, 1718
Eleocharis acicularis 104, 2500
Eleocharis coloradoensis 1145, 2500
Eleocharis dulcis 179
Eleocharis egwisetina 2234
Eleocharis obtusa 3486
Eleocharis quadrangulata 1419
Elettaria cardamomum 755
Eleusine 2526
Eleusine coracana 2428, 3379-3380
Eleusine indica
biology
development 146, 496
water relations 146
control
chemical control 37, 343, 1241, 2998
alachlor 2395
benfluralin 395
bentazone 2094
chlorthal-dimethyl 1308
2,4-D 1308
ethalfluralin 1698
ethofumesate 394
fenoxaprop 1700
fluazifop 3587
mecoprop 1308
metobromuron 2395
metolachlor 2395
metribuzin 394, 1308
MSMA 1308
napropamide 394
oryzalin 1301
oxadiazon 394, 1308
oxyfluorfen 2395
paraquat 2094
pendimethalin 344, 2395
propanil 1594
prosulfalin 394
quizalofop 3521
trifluralin 344, 395
vernolate 344
herbicide application
physiology 217, 3587
resistance 217
management, irrigation 1698
ecology
biotypes 217, 496
distribution 2200
soils 2819
hosts of plant pests 2845, 3076
Elionurus candidus 75
Elodea canadensis 106, 487, 1441, 2538, 3603
Elodea densa 2504
Elodea nuttallii 744
Elymus nutans 1659
Elymus repens
biology 1259
composition 1043, 1132, 1771
meristems 1132
rhizomes 1771
roots 1132, 1771
taxonomy 3281
transpiration, stomata 2829
vegetative propagation 1367
control
chemical control 343, 404, 1420, 2066, 2737, 2984, 3007, 3533, 3578
alloxydim 48, 433, 665, 950, 3551
atrazine 2105, 3211
bentazone 48, 2105
cloproxydim 1262
cycloxydim 284, 1631
dalapon 915
diquat 3459
fenoxaprop 1672

Elymus repens *cont.*
control *cont.*
chemical control *cont.*
fluazifop 46, 48, 430, 635, 834, 950, 1132, 1189, 1259, 1745, 2383, 3271-3272, 3551, 3566
flurochloridone 48
glufosinate 679, 3459
glyphosate 430, 568, 679, 707, 837, 960, 986, 1553, 1587, 1652, 2105, 2358, 2370, 2671, 3003, 3164, 3452, 3459, 3590
haloxyfop 657, 1672, 3003
linuron 657
maleic hydrazide 3164
metamitron 46
metribuzin 48, 1263
oxyfluorfen 657
paraquat 679, 1653
phenmedipham 46
quizalofop 332, 865, 1263, 1672, 3271, 3551
sethoxydim 430-433, 665, 950, 1189, 1672, 3271-3272, 3524, 3588-3589
simazine 679, 2105
TCA 915
terbumeton 2105
terbuthylazine 2105
trifluralin 46
chemical vs. cultural weed control 1805
climate 707, 3589-3590
cultural control 1420, 2066
direct sowing 1653
hoeing 635
ploughing 1200
rotary cultivation 986
herbicide application, physiology 434, 516, 807, 1132, 2572, 2589
integrated control 1553, 1614
management 3533
fertilizers 1829
rotations 1614
no-tillage 3533
non-crop weed control, amenity and recreation areas 3597
species shift 1675, 1805, 1829
ecology
allelopathy 430, 1043, 3281
colonizing ability 1385
competition 271, 430, 605, 1805, 1807, 2066, 3003, 3646
distribution 286, 1259, 2182, 2186-2187, 2199
habitats 486, 1420
origin 3281
seasonal variation 164, 1420
soils 2186
spread 1420, 3281, 3597
weed associations 1420, 2539
hosts of plant diseases 3281
hosts of plant pests 2842
seeds
climate 164
contamination 3048
seed dispersal 1770
utilization 3281
Elymus sibiricus 1659
Elymus spicatus 61, 2162
Elymus tschimganicus 1784
Elymus virginicus 152
Elytraria imbricata 2371
Emella sonchifolia 3600
Emex australis 2777
Emilia sonchifolia 740
Encelia farinosa 1680
Endothal
toxicology
fishes 417
insects 2919
usage, aquatic weeds 417
Enteromorpha intestinalis 106
Ephedra 2225
Epilobium 134
Epilobium adenocaulon 495
Epilobium angustifolium 712, 1849, 2184, 3276, 3318
Epilobium ciliatum 404, 495, 685, 712
Epilobium dodonaei 491
Epilobium hirsutum 712, 1829, 2143, 2797
Epilobium obscurum 712
Epilobium parviflorum 712
Epilobium tetragonum 712
EPTC
analytical methods
bioassays 1940
thin layer chromatography 539, 1940
physiology
cytology
binding site 2902
cell membranes 800
germination 3373
growth regulators 3373
metabolism 2253
amides 1628
amino acids 1628
carbohydrates 1896
chlorophyll 1896
enzymes 1896, 2902
lipids 1896
waxes 2713
mode of action 2902
photosynthesis 230
respiration 1896
transpiration 2713
residues
atmosphere 539
plant residues 934
soils 1940
soils
degradation 612, 866, 1508, 1940, 2604, 2615, 2924, 3766-3767
irrigation 866
leaching 866, 3759
microbial activities 866, 2374
microbial degradation 561, 3765
microorganisms 612
persistence 866, 1508, 1940, 3767
temperature 1964
vaporization 1964, 3759
usage
additives 561, 2604, 3765
application, methods 314, 2627, 2970, 3403, 3471
aquatic weeds 1896
compatibility, insecticides 2615-2616
crops
cereals 32, 156, 314-316, 612, 866, 886, 889, 1213, 1220, 1590, 2038-2039, 2374, 2616, 2670-2671, 2970, 3470
fibre plants 921
fodder crops 612, 866, 934, 1588, 2037, 2969
forests 80, 977, 3025
legumes 1296, 1598, 2089-2090, 2420, 2969, 3549-3550, 3554
oil plants 1271, 3526-3527
ornamentals 1302, 3018
rangelands 3237
root crops 230, 632-633, 911, 1607, 1626-1628, 2706
tree fruits 407
vegetables 1295-1297, 2430
damage 1626, 1628, 2038, 2089-2090, 2972, 3025, 3549
diseases 2412
green manures 2048
incorporation 2627
irrigation 1964, 3403
minimum tillage 2038
mixtures 866, 1627, 3766
no-tillage 2038
residual effects 1508
safeners 156, 309, 316, 407, 897, 1213, 1909, 2377, 2615, 2972, 3237, 3470
selectivity 3549
soils 3549
tolerance 1055
yields 2038, 2969
Equipment
cutters 1988
image processors 3189
Equipment *cont.*
patternators 1974
pot sprayers 2332
washing, roots 573
Equisetum 272, 409, 1219, 2144
Equisetum arvense 404, 706, 716, 1367, 1614, 1785-1786, 2184, 2192, 2496, 2573, 3050
Equisetum diffusum 1531, 1785
Equisetum fluviatile 1834
Equisetum hyemale 1785, 2827
Equisetum laevigatum 1786, 3050
Equisetum scirpoides 1785
Equisetum telmateia 1785-1786, 3050
Eragrostis cilianensis 336-337, 2419, 2815
Eragrostis ferruginea 3076
Eragrostis japonica 2677
Eragrostis minor 2815
Eragrostis pectinacea 1365
Eragrostis plana 1830
Eremochloa ophiuroides 1309-1310, 1312, 1315, 2103
Erica gracilis 3020
Erigeron 1543
Erigeron annuus 1109
Erigeron bonariensis 2059
Erigeron canadensis (*see Conyza canadensis)*
Erigeron philadelphicus 3132
Eriocaulon septangulare 1403
Eriocereus martinii 3713
Eriochloa contracta 1664, 2420
Eriochloa villosa 343
Erodium 1562
Erodium botrys 3592
Erodium cicutarium 477, 3592
Erysimum cheiranthoides 2662
Esprocarb, usage, mixtures 3214
Ethalfluralin
analytical methods, gas liquid chromatography 237
usage
crops
legumes 1471, 2082, 3548, 3554
oil plants 918
small fruits 1471
vegetables 1471, 1687, 1698
damage 1471, 1687, 3548
diseases 2412
irrigation 1698
recommendations 918
selectivity 3548
Ethephon 126, 1246, 1882, 2833
Ether, 2,4-dichlorophenyl-3-methoxy-4-nitrophenyl 541, 1925
Ether, 4-nitrophenyl 2,4,6-trichlorophenyl- 541
Ethers, diphenyl 2896
Ethidimuron, usage, crops, plantation crops 2111
Ethiolate, usage, crops, cereals 891
Ethofumesate 350
physiology
metabolism
amides 1628
amino acids 1628
residues, soils 394, 875, 1620
soils, persistence 875
usage
crops
cereals 875
grasslands 54, 1656
lawns and sports turf 394, 399, 958
ornamentals 392
plantation crops 365
root crops 630, 1607, 1619-1620, 1625, 1628, 1632, 2056, 2700
vegetables 1284
damage 67, 1619-1620
mixtures 630, 1625, 1632, 2700
rates 630
residual effects 875
sequences 630
tolerance 1055
weeds 712
wetters 67
yields 2700
Ethylene 126, 503, 513, 792, 2473, 2836, 2877, 3286, 3321

Eucalyptus 1336, 2116, 3561
Eucalyptus botryoides 68
Eucalyptus camaldulensis 1328
Eucalyptus delegatensis 742
Eucalyptus gomphocephalia 1328
Eucalyptus nitens 1328
Eucalyptus ovata 1328
Eucalyptus regnans 1328
Eucalyptus sieberi 3564
Eupatorium 2118, 3676
Eupatorium adenophorum 1045
Eupatorium cannabinum 1385
Eupatorium capillifolium 1730, 2743
Eupatorium inulifolium 3600
Eupatorium odoratum 77-78, 972, 2249, 2476, 3046, 3416
Eupatorium perfoliatum 195
Eupatorium rugosum 3033
Euphorbia 1227, 1457, 2019, 2409, 3567, 3626, 3683
Euphorbia cyparissias 777, 2200
Euphorbia esula 198, 235, 492, 777, 931, 988, 1023, 1274, 1457, 1469, 1682, 1787, 1906, 1948, 2861, 3123, 3294, 3615, 3621, 3683, 3689
Euphorbia helioscopia 1829, 2976
Euphorbia heterophylla 1230, 2041-2042, 2355, 2386, 2974, 3696
Euphorbia hirta 1088
Euphorbia humistrata 343, 678, 1027
Euphorbia hyssopifolia 1027
Euphorbia maculata 1027, 1305, 1581, 1827
Euphorbia nutans 1027
Euphorbia peplus 3617
Euphorbia prostrata 2151
Euphorbia serpens 1027
Euphorbia supina 1365
Europe, weed control, aquatic weeds 423
European Communities, herbicides, legislation 2290
Euryale ferox 1788
Fagopyrum esculentum 53, 846, 1395, 2183
Fagopyrum sagittatum 1395
Fagopyrum tataricum 458, 1395, 3119
Fagus grandifolia 88, 93, 983
Fagus sylvatica 3024, 3581
FD4026 3464
Feijoa sellowiana 1325
Fenoprop
- analytical methods
  - chromatography 543
  - gas chromatography 1921
  - mass spectrometry 1921
- chemistry, structure 809

Fenoxaprop
- physiology
  - translocation 246
  - uptake 1670
- residues, soils 2922
- soils
  - adsorption 2922
  - degradation 2922
  - photolysis 2922
- usage
  - antagonism 1234, 2658
  - climate 246
  - crops
    - cereals 2977, 3488-3489
    - fibre plants 3517
    - grasses 1670
    - grasslands 373
    - lawns and sports turf 396-397, 952-957, 1313, 1700
    - legumes 327, 1234, 1670, 2055, 2986, 3497, 3499
    - oil plants 1643
  - damage 955, 1195, 1670
  - mixtures 1234
  - quality 2977
  - safeners 953
  - sequences 1234
  - weeds 429
  - wetters 1234
  - yields 2977

Fenthiaprop
- usage
  - crops
    - legumes 3497
    - root crops 2401

Fenuron
- analytical methods, chromatography 546
- soils
  - degradation 2924
  - microbial activities 2374
- toxicology
  - aquatic organisms 2602
  - fishes 2602
- usage
  - crops
    - cereals 2374
    - oil plants 3527, 3530

Festuca 1631, 3544
Festuca arundinacea 59, 71, 398, 1275, 1306, 1313, 1340, 1451, 1700-1701, 2078, 2102, 2178, 2447, 2720, 3234, 3539, 3646
Festuca nigrescens 59
Festuca ovina 60
Festuca pratensis 3646
Festuca rubra 59, 393, 475, 958, 1275, 1993, 2078, 2434, 3099
Fimbristylis 2846
Fimbristylis diphylla 3484
Fimbristylis littoralis 325, 3486
Fimbristylis miliacea 321, 902, 1051, 2530
Flamprop
- physiology
  - genetics, chromosome aberrations 1120
  - metabolism 1136
  - translocation 1135-1136
  - uptake 1135-1136
- usage
  - crops
    - cereals 591, 1135, 2369, 3454
    - grasslands 2078

Flaveria bidentis 3075
Flaveria trinervia 1437
Flora
- Asia 2790
- Australia 1022, 1779, 2491
  - New South Wales 2957
  - Queensland 3799
- Bahrain 1776
- Bangladesh 764-765, 1390
- Belgium 1832-1834
- Brazil 482
- Canada 457-458, 2816
  - Nova Scotia 3627
  - Quebec 3627
- China 178, 3650
- Cuba 138, 2537
- Czechoslovakia 479, 729, 748-749, 1382-1384
- France 176
- German Federal Republic 1047
- Greece 3626
- Hungary 1385, 1398, 3068, 3315
- India 1386-1389, 1777-1778
- Kenya 3798
- Kuwait 1776
- Malaysia 179
- Mediterranean 455
- New Zealand 3193
- North America 2790
- Pakistan 325, 1421, 2059, 2489
- Peru 2527
- Poland 2182
- South America 139
- Spain 1427, 1823
- Sudan 1392
- Syria 456
- Tanzania 3798
- Thailand 1789
- Uganda 3798
- UK 172, 1380-1381
- USA, Maine 3627
- USSR 2142, 2144
- Yugoslavia 137, 2145, 2147, 2188, 2815
- Zaire 2526

Florence minor 1826
Flourensia cernua 1685
Fluazifop
- analytical methods, bioassays 3758
- formulations, granules 41

Fluazifop *cont.*
- physiology
  - absorption 516, 518, 1468, 3124-3126, 3587
  - adsorption 517
  - cytology, chloroplasts 2589
  - germination 1468
  - metabolism 3124
    - amino acids 1132
    - carbohydrates 1132
    - chlorophyll 2589
  - mode of action 1132, 1468, 1881, 2879
  - respiration 2594
  - translocation 516-518, 991, 1468, 2879, 3124-3126, 3587
  - ultrastructure 2589
  - uptake 516, 991, 2879
  - water relations 3125
- residues
  - plant residues 1950, 2910
  - soils 875, 1511, 2910
- soils
  - adsorption 1511
  - leaching 1511, 3758
  - mesofauna 3772
  - persistence 875, 1468, 3758
  - pH 1511
- toxicology
  - arthropods 3772
  - insects 551
- usage
  - additives 516-518, 1602, 3271-3272
  - antagonism 1233
  - application
    - equipment 834
    - methods 254, 2393, 3546
  - aquatic weeds 425
  - climate 246, 3030
  - compatibility
    - growth regulators 1881
    - herbicides 3126
  - crops
    - cereals 286, 834, 875, 1745
    - fibre plants 2998, 3517, 3519
    - fodder crops 642
    - forests 1729, 2113, 2447
    - grasslands 373, 1275, 3234
    - lawns and sports turf 1310, 1312
    - legumes 327, 331, 337, 620, 1189, 1233, 1235, 1281, 1598, 1602, 2055, 2383, 2393, 2400, 2694, 2699, 2721, 2879, 3497, 3499, 3551
    - medicinal herbs 1273
    - oil plants 918, 1270-1271, 1643-1644, 2690, 3231, 3526, 3543
    - ornamentals 66, 389, 653, 2732, 3566
    - plantation crops 969, 1272
    - root crops 46, 48, 1189, 1633, 1745, 2061, 2401-2402, 2407, 2594, 3512, 3543
    - small fruits 659, 670-671, 679, 1702, 1707, 3543
    - tree fruits 659, 682, 2737, 3543
    - vegetables 376, 635, 940, 950, 1284, 1289, 1687, 1695, 2085, 2429, 3543-3544
  - damage 376, 380, 671, 1195, 1270, 1273, 1687, 2085, 2383
  - mixtures 1233, 1273, 1633, 2699, 3526
  - pests 3772
  - quality 2402
  - recommendations 918
  - residual effects 875, 2694
  - tissue culture 535
  - weeds 429
  - wetters 516
  - yields 376, 380, 671, 1270, 1695, 2694, 3519

Fluazifop-butyl
- residues, plant residues 1291
- usage
  - crops
    - legumes 628, 2995
    - oil plants 2711, 2995
    - vegetables 1291

Fluchloralin
analytical methods
bioassays 3729
gas liquid chromatography 237
physiology
anatomy 644
degradation 3729
metabolism
amino acids 2707
carbohydrates 2707
carotenoids 2707
chlorophyll 3221
proteins 2707
soils
microbial activities
enzymes 2366
nitrification 2619
toxicology, disposal 552
usage
application, methods 925
crops
cereals 585, 2366, 2379, 2683
fibre plants 925, 2070
legumes 64, 328, 331, 625-626, 2082, 2388-2389, 2423, 2995, 3216, 3221-3223, 3495
oil plants 585, 2411, 2690, 2711, 2995-2996
plantation crops 2715
root crops 1253, 2707
vegetables 2099, 2384, 2431, 2728, 3242, 3557-3558
damage 644
diseases 2620, 2696
economics 2388
nodulation 3221
persistence 2431
yields 2388-2389, 2683
Fluometuron
analytical methods, bioassays 548
physiology, genetics, chrosome aberrations 3366
residues
groundwater 3159
soils 2016
soils
persistence 2016
structure 3159
usage
application, methods 923
crops
cereals 1211
fibre plants 811, 921, 923, 1211, 2122, 2998
legumes 1211
plantation crops 689
damage 689, 2016
residual effects 548, 2016
soils 2016
Fluorodifen
usage
crops
legumes 1252, 1604
vegetables 63
yields 1252
Fluoroglycofen, usage, crops, vegetables 3239
Flupropanate, usage, crops, grasslands 2073
Flurazole 1909, 3477, 3480, 3580
usage, safeners 3500
Flurenol
usage
application, methods 592
crops
cereals 21, 592, 1225, 2666
grasslands 2719
rates 592
weeds 989
yields 21
Fluridone
physiology, metabolism, chlorophyll 2452
soils
adsorption 557
climate 557
microbial degradation 3756
movements 557
organic matter 557, 3756
persistence 240, 557, 3756
Fluridone *cont.*
soils *cont.*
types 557
usage
aquatic weeds 2452
crops, fibre plants 51
mixtures 3274
Flurochloridone
analytical methods, bioassays 281
soils
moisture 281
persistence 281
temperature 281
usage
application, methods 314
crops
cereals 13, 300, 314, 1567
forests 88
legumes 2684
oil plants 1269-1271, 2413
root crops 48-49, 353-355, 1636
small fruits 1318, 3545
tree fruits 1325
vegetables 354, 646, 3545
damage 1270, 1318
persistence 3545
rescue crops 281
selectivity 2684
yields 1270
Fluroxypyr
analytical methods, gas chromatography 1923
chemico-physical properties 293
chemistry 1913
physiology
metabolism
amino acids 796
carbohydrates 796
cytology 796
nucleic acids 796
proteins 796
mode of action 293, 796, 1913
penetration 796
translocation 796
uptake 796
soil relations 293
soils
degradation 1913
movements 1913
toxicology 293, 1913
usage
application, methods 711
aquatic weeds 425
compatibility
fungicides 874
herbicides 874
insecticides 874
crops
cereals 11, 15, 29, 288-290, 293, 590, 711, 874, 878, 1552, 1567, 2029, 2662, 3446, 3463
grasslands 1649, 1657-1658
damage 1649
mixtures 11, 874
rain 2943
woody weeds 3191
Fodder beet 350, 1805, 2060
Fomesafen
usage
application, methods 2393
crops
legumes 1603-1604, 2393, 3499
oil plants 3526
root crops 632
small fruits 1702
vegetables 63, 3239
mixtures 3526
Fonofos 43
Forsythia 391, 2434
Fosamine
physiology
absorption 1117
translocation 1117
uptake 1117
usage
application, equipment 1166
crops
forests 3258
grasslands 3005
rangelands 3005
Fosamine *cont.*
usage *cont.*
crops *cont.*
tree fruits 3249
weeds 1117
woody weeds 1117, 1166, 2753
FR1298 3449
Fragaria virginiana 402
France
flora 176
herbicides, reviews 294
weed control, reviews 893
Fraxinus americana 93-94, 2450
Fraxinus pennsylvanica 977, 2449
Fumaria densiflora 2168
Fumaria indica 1207, 2059
Fumaria muralis 2168
Fumaria officinalis 362, 485, 1192, 3463, 3626
Furan, 3-benzyloxytetrahydro- 1917
Furan, 3-[2-nitro-5-(2-chloro-4-trifluoromethylphenoxy)phenoxy]tetrahydro- 2012
3-Furanones 1914
Fusicoccin 2830
GA 1460, 1759, 1803, 1879-1881, 3373
Galega officinalis 116, 2200
Galega orientalis 848, 934
Galeopsis 1562
Galeopsis pubescens 1383
Galeopsis speciosa 885, 919, 3514
Galeopsis tetrahit 11, 362, 595, 1579, 2187, 3280, 3441-3443, 3449, 3462
Galinsoga 3544
Galinsoga ciliata 381, 1821
Galinsoga parviflora
control
chemical control, metamitron 1821
species shift 1821
ecology
competition 1839
fertilizers 1839
succession 1839
Galinsoga quadriradiata 1839, 3627
Galium 1192, 1821
Galium aparine
biology
genotypes 723
morphology 723
physiology 723
control
chemical control 348, 2011, 2061, 3007, 3652
alloxydim 48
atrazine 885
benazolin 878
bentazone 48
bifenox 589, 878
bromofenoxim 2671
bromoxynil 7, 11, 588-590, 878, 2031
chloridazon 630
chlorotoluron 603, 1551
chlorsulfuron 10, 588, 603, 2029, 2031
clofop 7
clopyralid 867
cyanazine 589
2,4-D 600, 756, 867, 1562, 2031
2,4-DB 2969
dicamba 867, 2031
dichlorprop 1579
diflufenican 1568, 2596, 3449
EPTC 2671
ethofumesate 630, 1632
fluazifop 48
flurochloridone 48-49, 1636
fluroxypyr 11, 590, 878, 1552, 2029
ioxynil 7, 11, 588-590, 878
isoproturon 584, 603, 1551, 1568, 3449
lenacil 630
linuron 589
MCPA 600, 756, 2031
mecoprop 7, 589-590, 878, 1579, 2029
metazachlor 1640
methabenzthiazuron 588
metoxuron 2029
metribuzin 48

***Galium aparine** cont.*
control *cont.*
chemical control *cont.*
metsulfuron 10, 2648
pendimethalin 589
phenmedipham 630, 1632
propham 630
proximpham 630
terbuthylazine 2671
terbutryn 2671
trifluralin 589
chemical vs. cultural weed control 1805
cultural control 1562
cutting 3637
manual weed control 3637
minimum tillage 1562
non-crop weed control, amenity and recreation areas 3597
recommendations 2028
species shift 1805
ecology
competition 723, 737, 1805, 1810, 2019, 2029, 3637
distribution 756, 2815, 3652
seasonal variation 2028
spread 3597
seeds
contamination 723, 737
germination 720, 723
Galium mollugo 477, 2719
Galium persica 739
Galium tricornutum 2815
Garlic 3008
Gaultheria shallon 1739
Gazania 3564
Geranium 3042
Geranium carolinianum 1241, 3335
Geranium molle 3042
German Federal Republic
flora 1047
herbicides
legislation 3001
surveys 562
Gladiolus 66, 1607, 3017
Gladiolus* × *G. hortulanus 1301
Glechoma hederacea 1042
Globe artichokes 2098
Glottidium vesicarium 1793
Glufosinate
physiology
genetics 2891
metabolism 1907
amino acids 3137
enzymes 675
lipids 1483, 3137
nucleic acids 3137
proteins 1483, 3137
photosynthesis 3137, 3745
translocation 1907
soils, straw 3459
toxicology 3745
usage
additives 3459
antagonism 3137
aquatic weeds 96
crops
cereals 1583, 3459
legumes 378
plantation crops 972
root crops 356
small fruits 679
tree fruits 406, 679
damage 406, 675
weeds 1353, 1483
Glyceria maxima 122
Glyceria plicata 122
Glycine canescens 520
Glyphosate
analytical methods 818, 3143
chromatography 1143, 1968
electrophoresis 1935
gas chromatography 828
spectrometry 1936
chemistry, structure activity relationships 3744
formulations 1326, 3032, 3595
emulsifiable concentrates 247
oil miscible concentrates 247
physiology 3591

Glyphosate *cont.*
physiology *cont.*
absorption 992, 1114, 2121, 2883, 2886, 3565, 3594
cytology, chloroplasts 215, 3370
degradation 206, 2575
genetics 2888, 3371
genetic transformation 3370
mitosis 215
metabolism 206, 1906, 2575, 2885, 2903
amino acids 203, 221, 807-808, 1129, 1479, 3374
carbohydrates 215, 805, 1137, 1479
carotenoids 3496
chlorophyll 203, 223, 3496
enzymes 221-223, 515, 675, 1143, 2262, 2595, 2893, 3129, 3370-3371, 3738
lipids 1483
peptides 234, 515
phenols 3374
pigments 2875, 3496
proteins 234, 807, 1483, 2595, 2893, 3129, 3496
waxes 1114-1115, 2883
mode of action 805, 807, 1326, 2595, 2903
penetration 206, 2883, 2903
photosynthesis 532, 808, 1479
translocation 206, 209, 435, 992, 1114, 1479, 1888, 2121, 2573, 2883-2885, 2903, 3032, 3123, 3128, 3375, 3565
ultrastructure 215, 2595
uptake 209, 1888, 2573, 2886, 3128
water relations 1888
residues 1491
plant residues 828, 1935
soils 828, 2610
water 818, 2610, 3143
soils
adsorption 242, 1514, 1968-1969, 2610
degradation 245, 1317, 2309, 2610
desorption 1968
fertilizers 2935
humic acids 242
mesofauna 3772
microorganisms 3002
bacteria 245
fungi 245
plant pathogens 3400
moisture 2309
movement 242
organic matter 2934
persistence 1317
pH 1514, 1968
straw 3452, 3459
temperature 2309
types 245, 2934
water relations 2610
toxicology 1326
arthropods 3772
disposal 1491
environmental pollution 1491
mammals 84
usage
additives 435, 837, 1346, 1351, 1553, 1587, 1652, 2671, 2764, 3459, 3590
antagonism 223
application 3002
equipment 250, 937, 1166, 3595
methods 250, 327, 711, 1681, 1684, 2121, 2327, 2634, 2722
aquatic weeds 96, 699, 3269
climate 707, 960, 1114, 1351, 3030, 3590
compatibility
fertilizers 2329
growth regulators 1888, 3496
crops
cereals 32, 286, 294-295, 305, 591, 611, 711, 892, 894, 1214, 1553, 1584, 1587, 1619, 2358, 2370, 2373, 2375, 2655, 2671, 3198, 3233, 3452, 3459, 3485

Glyphosate *cont.*
usage *cont.*
crops *cont.*
fallow 299, 939, 960
fibre plants 363, 921, 3518
fodder crops 1283
forests 68, 84, 88, 92, 410, 692, 808, 977, 979, 983, 1326, 1338, 1341-1342, 1349, 1724, 1729, 1734, 1739, 1741, 1959, 2117-2118, 2440, 2447, 2450, 2742, 3255, 3258, 3262, 3582
grasslands 55, 58, 368, 933, 937, 1607, 1652, 1660, 2073, 2076, 2415, 2424-2425, 2427, 2634, 2719, 3002, 3234, 3236
lawns and sports turf 71, 1701
legumes 327, 378, 611, 1236, 1240-1241, 2370, 2421, 2694, 2721, 2981, 3003
medicinal herbs 973
oil plants 2655, 3232
ornamentals 68, 960, 1349, 3565
plantation crops 611, 639, 689, 964, 968-969, 972, 1719, 2111-2112, 3576
rangelands 1681, 1683-1684, 1686
root crops 360, 1616, 3512
small fruits 661, 960, 1317, 1705, 1708, 2105, 2734-2736
tree fruits 404, 679, 682, 960, 962, 965, 1714, 2327, 2737, 3249, 3577
vegetables 915, 939
damage 67, 382, 435, 675, 1236, 1341, 1734, 2424, 3518
direct sowing 3232
diseases 1454
economics 964, 2118, 3255, 3413
grasslands 2722
interactions 1454
minimum tillage 3198, 3206, 3233, 3413
mixtures 111, 435, 992, 1236, 1326, 1348, 1683, 2327, 3002, 3592
no-tillage 2049, 2425, 3577
non-crop weed control 111, 368, 2751, 2754, 2766-2768, 3595
parasitic weeds 860, 2421, 2735, 2836
pests 3772
residual effects 109, 2424, 2694
soils 1749
sward destruction 1676, 2425
sward renovation 1651, 1660, 1674-1675, 1679, 2083, 2424, 2427, 3236
tissue culture 3129
weeds 986, 988-989, 1348, 1353, 1483, 1749, 2123, 2462, 2481-2482, 2762, 3031, 3591
wetters 67, 568, 707, 1114-1115, 1684, 1701, 1744, 2764, 2883, 3594
wildlife 1959
woody weeds 92, 983, 1166, 1331, 1351, 1683-1684, 1724, 1734, 2634, 2722, 3582
yields 72, 382, 2694, 3518
Gnaphalium 2373
Gnaphalium cheiranthifolium 345
Gnaphalium luteo-album 1384
Gramineae 1272, 2541
Grammatoglossae 1794
Grapevines
herbicide application
damage 673, 675, 2104
physiology 675
residual effects 1317
soils 2438
yields 72, 1319, 2104, 3572
weed control
biological control, insects 3712
chemical control 587, 959, 1321, 1711, 3246-3247, 3405
amitrole 2736
atrazine 676, 2105, 3573

Grapevines *cont.*
weed control *cont.*
chemical control *cont.*
bentazone 2105
butralin 672
chlorthiamid 676, 2736
2,4-D 756
dalapon 676, 1317
diuron 672, 676, 3573
fluazifop 679, 3543
glufosinate 679
glyphosate 1317, 1708, 2105, 2437, 2736
linuron 3573
MCPA 756
monolinuron 3573
monuron 676
napropamide 672
norflurazon 1709
oryzalin 672, 674, 1709
oxyfluorfen 1709
paraquat 679
pendimethalin 674
prodiamine 674
sethoxydim 679
simazine 672, 674, 676, 1317, 2105, 2437, 2736
terbacil 676
terbumeton 676, 2105, 2437, 2736
terbuthylazine 2105, 2437, 2736
cultural control 1711, 3246
cultivation 2438, 3571
economics 3247, 3787
management 1712
cover crops 1322, 1710
fallow systems 3246
green manures 3571
ground cover 1322
no-tillage 1319
recommendations 1304, 3575
reviews 2736
weeds
distribution 756, 3314
herbicide resistance 1474
hosts of plant pests 1086, 1710
surveys 1427, 2203, 2643-2644
Greece, flora 3626
Grindelia squarrosa 1023
Groundnuts
herbicide application 1547
damage 3227
interactions 910
nodulation 2617
pests 910, 3227, 3339
physiology 2253, 3376
quality 3226
residues 2617
tolerance 3225
yields 910, 3224-3226
weed control
biological control, fungi 2247
chemical control 45, 338, 2355, 2813, 3507
acifluorfen 1252, 2698
alachlor 27, 627, 910, 1252, 2964, 3226, 3503-3504, 3506, 3508-3509
benfluralin 910, 3226, 3503, 3506
bentazone 1252, 2699, 3508
chlorimuron 3505
cinmethylin 236, 2399
cloproxydim 2698
2,4-DB 2699, 3505, 3509
dinoseb 2964, 3226, 3503, 3505, 3508-3509
fluazifop 2400, 2690, 2698-2699, 3228
fluazifop-butyl 628
fluchloralin 585, 2690, 2996, 3223
fluorodifen 1252
haloxyfop 2698, 3228, 3508
imazaquin 3505
linuron 1252
metolachlor 1252, 3504, 3506, 3508
naptalam 2964, 3226, 3505, 3508-3509
nitrofen 627
Groundnuts *cont.*
weed control *cont.*
chemical control *cont.*
norflurazon 3506
oryzalin 3508
oxadiazon 2996, 3223
paraquat 3226, 3509
pendimethalin 344, 627, 1252, 2690, 2996, 3223, 3509
prometryn 1252, 3509
sethoxydim 910, 2699, 3228, 3503
terbutryn 1252
trifluralin 344
vernolate 43, 344, 910, 3226, 3506
cultural control 628
cultivation 2398, 2400, 2690, 3503
hoeing 585, 627
manual weed control 2690, 2996
economics 3414, 3503
energy requirements 585
integrated control 628, 2690, 3223
management 2813
weeds
allelopathy 3717
competition 740, 910, 1417, 2352, 2690, 2996
crop losses 2352
distribution 2526
hosts of plant pests 3339
parasitic weeds 504
yields 2690, 2996
Growth regulators 126, 208, 610, 703, 786, 791-792, 997, 1057, 1111, 1246, 1369-1375, 1434, 1461-1462, 1466, 1469, 1605, 1660, 1754, 1767, 1879, 1881, 1883, 1888, 1906, 2044, 2255, 2263, 2345, 2576-2577, 2586, 2775, 2779, 2831, 2833, 2878, 3719, 3730
Guava 1175
Guizotia abyssinica 2782
Gutierrezia 3101
Hakea sericea 3102
Haloxyfop
analytical methods
bioassays 3758
gas chromatography 1923
formulations, granules 41
physiology
absorption 434, 1468, 3124-3125
germination 1468
metabolism 3124
lipids 214
proteins 214
mitosis 3361
mode of action 1468
translocation 246, 434, 1468, 3124-3125
water relations 3125
residues, soils 1511
soils
adsorption 1511
leaching 1511, 3758
persistence 1468, 2010, 3758
pH 1511
usage
additives 1335
antagonism 63, 1234
application, methods 1335, 2393
climate 246
crops
cereals 286, 3361
fibre plants 363, 3517, 3519-3520
forests 1328, 1335, 1337, 2113, 2744
lawns and sports turf 1310
legumes 38, 331, 337, 1234, 2055, 2387, 2393, 2721, 2993, 3003, 3508
oil plants 918, 1643-1644, 3231, 3530
ornamentals 2732
root crops 353, 632, 2401
small fruits 657, 1707
tree fruits 682
vegetables 63, 376, 385, 1687
damage 376, 1195, 1687
mixtures 1234, 1328
Haloxyfop *cont.*
usage *cont.*
recommendations 918
selectivity 2010
sequences 1234
sward renovation 1661
weeds 336
wetters 1234
yields 376, 3508, 3519-3520
Haplopappus spinulosus 3051
Haumania 77
Hedera canariensis 1311
Hedera helix 1311, 3564
Helianthus annuus 3333
Helianthus lenticularis 1092
Helianthus rigidus 2142
Helianthus tuberosus 305, 2981
Helianthus tuberosus × ***H. annuus*** 3665
Heliopsis longipes 1994
Heliotropium europaeum 1383, 3103, 3687
Hemarthria altissima 1663
Heracleum sphondylium 1649, 1658, 1676
Herbicide resistant weeds 226, 493, 495-496, 521, 525, 601, 756, 761, 1054-1055, 1267, 1280, 1432, 1474, 1562, 1613, 1821, 1845, 1892, 2105, 2266, 2272, 2354, 2813, 2969, 3132-3134, 3211, 3246, 3362-3364
Herbicides
analytical methods 3747
bioassays 1150, 2923
chromatography 1932, 2287
fluorescence analysis 1144, 3322
gas chromatography 814, 1502, 1927, 3749
gas liquid chromatography 542, 1502, 2285, 3172
immunoassay 1941, 3148
liquid scintillation counting 3149
thin layer chromatography 542, 2285, 3149
chemistry
degradation 555
development 536
structure 536
structure activity relationships 810, 1916, 2279, 2899
synthesis 1901, 1912, 1916, 2302, 2906
crops, fodder crops 559
formulations 1992, 3775, 3783
carriers 3170
controlled release 836
emulsions 836
granules 836
wettable powders 836
manufacture 1992
mode of action 2895
physiology 2571
absorption 797, 3723
anatomy 2022
binding sites 2276
chromosome aberrations 3369
cytology 208, 523, 1480, 2257
chloroplasts 231, 1894, 2591, 2889
protoplasts 1894
degradation 615, 797
genetics 1480, 1893-1894, 2265, 2889
mitosis 523
metabolism 615
amino acids 2257, 2590
carotenoids 1131
chlorophyll 1131, 1901
enzymes 611, 1884, 1897, 2276, 2899
lipids 1483
mode of action 1898
nucleic acids 523
oils 2100
peptides 2590
photosynthesis 1898
pigments 1898, 2257
proteins 523, 859, 1483
mode of action 231, 582, 611, 615, 797, 896, 1121, 1130-1131, 2257, 3381
penetration 208, 3723
photosynthesis 231, 859, 1121, 1130-1131, 1897, 2257, 2276,

Herbicides *cont.*
physiology *cont.*
photosynthesis *cont.* 2590-2591, 2898-2899, 3146, 3381
respiration 859
translocation 797, 2882, 3723
uptake 2882, 3723
residues
animal products 1941
atmosphere 1499-1500, 3389
foods 3747
groundwater 1147, 2955, 3750-3752
plant products 1941, 2918, 3747
plant residues 1148, 3149
soils 113, 1148, 1499-1500, 2612, 2994, 3149
water 550, 555, 814, 1499-1500, 3149, 3387, 3749
soils
adsorption 819, 1967
algae 3402
aquatic environment 859
chemical degradation 2612
climate 3755
degradation 553, 819, 824, 859, 1148, 1499-1500, 2923, 2926, 3161
fertility 1507
groundwater 1515
leaching 1500-1501, 1515
mesofauna 1157, 1507, 3402
microbial activities 1154
microbial degradation 1521, 2302, 2613, 2923, 3755
microorganisms
algae 1154, 3164
bacteria 1154
fungi 564
moisture 2310
mollusca 566
movement 1933, 3155, 3161
oligochaeta 566
organic matter 1507, 1967
persistence 553, 2071, 3755
pH 1507, 1967
photolysis 819, 2926
rain 3387
residues 1490
runoff 3387
soil water 1323
straw 1507
structure 1507
temperature 3755
types 2613
volatilization 3155
water composition and quality 3161
toxicology 1958, 1990, 3412
aquatic environment 3153, 3387-3388
aquatic organisms 2292, 3153
chickens 2918
contaminants 3388
disposal 1489-1490, 1499-1504, 1506, 1521, 1527, 1960, 2302
earthworms 1507
ecosystems 3212
environmental pollution 562, 566, 3247, 3388
fishes 1497
insects 1157, 2298
livestock 3387
mammals 1169
man 715, 1492, 1501, 2920, 3154, 3247, 3754
mesofauna 2296
mollusca 550
public health 3751
rats 1496
soil mesofauna 559, 1157, 3402
tests 2920
wildlife 2916
usage 3176
additives 1979, 2944, 3774
antagonism 2330, 2945
application, methods 2955
approval schemes 570, 660, 1249, 3783
climate 835
compatibility 1979
herbicides 2945

Herbicides *cont.*
usage *cont.*
crops
cereals 601, 871, 876, 2649-2650
forests 81, 83, 693, 695-696, 978, 1722, 1819, 2443
grasslands 57, 853
lawns and sports turf 3425
legumes 2697, 3493
ornamentals 651, 3017, 3425, 3561
rangelands 2084
vegetables 3006
damage 1184, 3438
diseases 908, 2022
economics 1989
equipment 3779
extenders 2923
history 3388, 3412
minimum tillage 601, 3196
no-tillage 2965
non-crop weed control 714, 1755
pests 2297, 3773
safeners 1183, 1898, 2330
selectivity 896, 3359, 3438
storage 1490
synergism 2330
temperature 2892
wetters 1979, 2626
woody weeds 57
Heteranthera 1593
Heteranthera dubia 1403
Heteranthera limosa 1226
Heteranthera reniformis 483, 1226
Heteranthera rotundifolia 483
Heterotheca latifolia 1534
Heterotheca subaxillaris 677
Hexazinone
analytical methods
autoradiography 2303
chromatography 2284
gas chromatography 2303
liquid scintillation counting 2303
thin layer chromatography 1919
formulations 1333
granules 1329, 1723, 2446
wettable powders 1329
physiology
absorption 1116
degradation 1116
mode of action 1333
photosynthesis 1116, 1706
translocation 1116
uptake 1116
residues
soils 2284, 2303
water 2284
soils
adsorption 2284
degradation 1919, 2284, 2303
desorption 2284
lateral movement 2303
leaching 2303
persistence 2303
toxicology 1333
usage
application, methods 2446
compatibility, fertilizers 403, 1737
crops
culinary herbs 974
forests 85-86, 90, 92, 414, 982, 1327, 1329-1330, 1338, 1341, 1723-1724, 1728, 1731-1732, 1737, 1741, 2115, 2117, 2440, 2444, 2446, 2742, 2747, 3024, 3261-3262
legumes 2080, 2418
medicinal herbs 973
plantation crops 2111-2112
small fruits 402-403, 1706, 2734
damage 372, 1329, 1341, 1731
economics 403, 982
residual effects 2351
weeds 495
woody weeds 92, 414, 1331, 1724, 1728
yields 2351
Hibiscus esculentus 2099, 2428, 2431, 3242, 3558

Hibiscus trionum 343, 1227, 2815, 3530
Hoffmannseggia densiflora 2783, 3045
Hoffmannseggia glauca 2516
Holcus lanatus 404, 979, 1660, 1771, 2187
Holosteum umbellatum 996
Hops 3578
Hordeum jubatum 1576, 2152, 2794
Hordeum murinum 54, 2078, 2136, 2489
Hordeum vulgare 2413
Hungary
flora 1385, 1398, 3068, 3315
herbicides
economics 3247
surveys 3748
weed control 1321
economics 3194
surveys 1543
Hyacinthus orientalis 441
Hydrilla verticillata
bioassays 1145
biology
identification 728
leaves 762
morphology 762
photoperiod 453, 732
physiology 453, 497, 728
roots 453, 497
shoots 453
tubers 453, 494, 2480
vegetative propagation 2505
water relations 497
control
biological control
herbivorous fish 2756, 3586
insects 1448, 2755, 3697
chemical control 703
2, 4-D 3269
fluridone 2452
glyphosate 3269
paraquat 3269
cultural control, cutting 2505
herbicide application
morphology 701
physiology 701, 2452
recommendations 2454
ecology
biotypes 494
competition, water relations 743
distribution 179, 758
ecotypes 762
habit 494
spread 758, 2538
water composition and quality 702, 2505
water relations 494
hosts of plant pests 1448, 2848
Hydrocharis morsus-ranae 170, 1368, 1773, 2542
Hydrocleys 1847
Hydrocotyle bonariensis 2112
Hydrogen peroxide 106
Hygrophila polysperma 743, 1850
Hyoscyamus niger 477, 1601, 2815
Hyparrhenia rufa 969, 2760
Hypericum 3107
Hypericum perforatum 1874-1875, 2871, 3087, 3104-3106, 3108
Hypochoeris radicata 2373
IAA 1460-1461, 1803, 3621
Imazapyr
physiology
binding sites 3130
metabolism, enzymes 3130
translocation 104, 207, 3726
uptake 104, 207
residues, water 104
soils
degradation 3726
leaching 3726
movement 207, 2932
rain 2932
usage
application, methods 990, 2763
aquatic weeds 96, 104
crops
forests 1334, 1730, 1733, 1738, 1753, 2445, 2447, 2449-2450, 2743, 2745, 3582
grasslands 2743
lawns and sports turf 2435
plantation crops 970

Imazapyr *cont.*
usage *cont.*
damage 415, 1730, 1733
non-crop weed control 114, 1753, 2766-2767
weeds 3031
wetters 2763
woody weeds 1334, 1738, 3582
Imazaquin
analytical methods, thin layer chromatography 558
chemico-physical properties 3384
physiology
absorption 1467
cell division 524
degradation 1467, 3724
germination 301
metabolism 3384, 3724
amino acids 524
carotenoids 301
chlorophyll 301
pigments 301
mode of action 3384
translocation 1467
uptake 1467
residues, soils 365
soils
adsorption 558
movement 558, 2606
persistence 2668
pH 558, 2606, 2609
water relations 558
toxicology 3384
usage
application, methods 1239
climate 3030
compatibility, nematicides 3224
crops
cereals 2668
lawns and sports turf 1315
legumes 333, 340, 1230, 1237-1239, 1242, 1455, 2122, 2386, 2981, 2985, 2988, 2992, 3225, 3505
plantation crops 365, 1646
damage 1646, 3505
diseases 1454
interactions 1454
mixtures 2988
quality 3505
weeds 336
yields 1646, 3225, 3505
Imidazolidinone, 3-[5-(1,1-dimethylethyl)-3-isoxazolyl]-4-hydroxy-1-methyl-2- 2011
Imidazolidinone, 3-[5(1,1-dimethylethyl)-3-isoxazolyl]-4-hydroxy-1-methyl-2- 2355
Imidazolidinone, 3-[5-(1,1-dimethylethyl)-3-isoxazolyl]-4-hydroxy-1-methyl-2- 2449, 2767
Imides, *N*-phenyl-3,4,5,6-tetrahydrophthal- 2274
Impatiens 390
Impatiens balsamina 2217, 2828, 3318
Impatiens capensis 489, 1798, 3066
Impatiens glandulifera 489
Impatiens parviflora 3319
Imperata 1719
Imperata brasiliensis 55, 932
Imperata cylindrica 2763
biology
growth 3618
rhizomes 3618-3619
roots 3618
shoots 3618
control
biological control
fungi 2245
insects 1450, 3355
viruses 1873
chemical control
dalapon 972, 2481, 3031
glufosinate 972
glyphosate 972, 2481-2482, 3031
imazapyr 990, 3031
cultural control
cutting 1718
mulching 1352
herbicide application
physiology 991
Imperata cylindrica *cont.*
control *cont.*
herbicide application *cont.*
resistance 991
spray retention 991
management, grazing 1718
ecology
allelopathy 1045
competition 1038, 2821
habitats 1776
regenerative ability 2482
soils 2821
water relations 2821
hosts of plant pests 1450, 3355
India
flora 1386-1389, 1777-1778
weed control
aquatic weeds 2454
biological control 3676
surveys 2352
Indigofera linifolia 2362
Indigofera nummulariifolia 1840
Indonesia
aquatic weeds 1537
reports 2952
weed control 1537
Ioxynil
analytical methods, gas chromatography 1923
physiology
cytology
chloroplasts 795, 803, 1472
pigments 803
degradation 795, 3718
metabolism
carotenoids 3382
chlorophyll 803, 3382
mode of action 795, 1432
penetration 795
photosynthesis 227, 803, 1474, 3382
respiration 3382
translocation 795, 3718
ultrastructure 795, 803
uptake 3718
soils
fertility 3450
microorganisms, algae 2312
usage
crops
cereals 7, 10-11, 19, 21, 24, 288-289, 293, 584, 588-590, 604, 878, 2021, 2373, 3442-3443, 3446, 3448, 3450, 3461-3462
plantation crops 3252
vegetables 646, 940
damage 24
mixtures 11
selectivity 3718
weeds 108
yields 21, 3450
Ipomoea 334-335, 340, 342, 1228, 1232, 1237, 1581, 2490, 3507, 3686
Ipomoea antonschmidii 2153
Ipomoea aquatica 321, 325, 758, 1088, 3788
Ipomoea argillicolla 2153
Ipomoea aristolochiaefolia 2041
Ipomoea carnea 2456
Ipomoea coccinea 3282
Ipomoea fistulosa 194, 1836
Ipomoea hederacea 142, 333, 440, 1037, 1230, 1350, 1445, 1645, 2202, 2985
Ipomoea hederacea* var. *integriuscula 3121
Ipomoea hederifolia 3282
Ipomoea jujuyensis 2118
Ipomoea lacunosa 343, 440, 473, 903, 1230, 1350, 1411, 1827, 2588, 2881, 3121, 3643
Ipomoea nil 1883
Ipomoea pandurata 774, 1445
Ipomoea polpha 2153
Ipomoea purpurea 440, 2477, 2588, 2801, 2881
Ipomoea quamoclit 3282
Ipomoea reflexisepala 2490
Ipomoea reptans 3789
Ipomoea saintronanensis 2153
Ipomoea trichocarpa 440, 1445
Ipomoea trichocarpa* var. *trichocarpa 2463
Ipomoea tricolor 440
Ipomoea triloba 3331
Ipomoea turbinata 1350
Ipomoea wrightii 1445, 3282
Iris 3561
Isocarbamide
residues, plant residues 3011
usage
crops, vegetables 3011
yields 3011
Isoetes lacustris 1441
Isomethiozin
usage
crops, cereals 610
damage 610
Isopropalin, analytical methods, gas liquid chromatography 237
Isoproturon
analytical methods, gas liquid chromatography 1141
physiology
absorption 3122
cytology, chloroplasts 2593
photosynthesis 23
translocation 3122
ultrastructure 2593
uptake 3122
properties, photolysis 1139
residues, soils 1620
soils
microbial activities, enzymes 2366
photolysis 1139
usage
aquatic weeds 425
compatibility, herbicides 1551
crops
barley 23
cereals 5-6, 13-14, 19, 584, 594, 603, 610, 880, 1209, 1563, 1568, 1577, 2021, 2030, 2362-2363, 2366, 2584, 3029, 3202, 3442, 3449, 3451, 3455
legumes 2684
medicinal herbs 1273
damage 610, 880, 1273, 1620
mixtures 584, 880, 1273
rescue crops 1620
selectivity 2684
weeds 23, 107-108, 708
yields 1563, 1577, 3451
Isothiocyanate, methyl 110
Isouron
physiology
absorption 822
degradation 822
metabolism
lipids 1904
nucleic acids 1904
proteins 1904
photosynthesis 1904
soils
degradation 1518-1520
microbial activities 1518
microorganisms
actinomycetes 822
bacteria 1519-1520
usage
antagonism 1464
safeners 1464
synergism 1464
Isoxaben
physiology
absorption 2570
cell division 2569
cytology 2569
germination 2569
metabolism 2570
morphology 2569
translocation 2570
soils
adsorption 2611
degradation 1972, 2611
movement 1972, 2611
persistence 1972, 2611

Isoxaben *cont.*
usage
compatibility, herbicides 3442
crops
cereals 1554, 1567, 2024, 3441-3442
ornamentals 3564
small fruits 1318
tree fruits 1325
damage 1318, 1325, 3564
mixtures 3564
yields 2024
Isoxazolidinone, 2-(2-chlorophenyl)methyl-4,4-dimethyl-3- 41, 339-343, 632, 1239, 1604, 2055, 2657, 2668, 2981, 2985, 2987-2988, 2992, 3155
Israel, weed control, parasitic weeds 1063
Italy, weed control, reviews 1544
Ivory Coast, weed control 2397
Jacquemontia tamnifolia 1350, 2695
Juglans nigra 1337, 2178, 2449, 2741, 2746, 3259
Juncus 1396, 1425-1426, 2179
Juncus alpino-articulatus 1397
Juncus bufonius 345
Juncus bulbosus 1799, 1801
Juncus effusus 2503, 2750
Juncus secundus 2142
Juniperus 654, 3679
Juniperus chinensis 3244
Juniperus conferta 3565
Juniperus oxycedrus 2221
Jussiaea decurrens 2800
Justicia americana 1419, 2503
Jute 2070
Kale 2997
Karbutilate
physiology, photosynthesis 229
toxicology 820
Kenya, flora 3798
Kickxia elatine 2181
Kinetin 1803
Kiwifruits 2106
Knautia 1382
Kochia 2986
Kochia scoparia 646, 844, 881, 1049, 1592, 1633, 2418-2419, 2495, 2517, 2652
Kuwait, flora 1776
Lactuca dolichophylla 1379
Lactuca serriola 678, 846, 1841, 3333
Lagarosiphon major 175, 2538
Lagenaria siceraria 2431
Lamium 1554, 1579, 2028, 2685, 3449, 3525
Lamium album 1658, 2021
Lamium amplexicaule 296, 751, 1668, 2662
Lamium purpureum 584, 590, 595, 1612, 1656, 1692, 2687, 3442, 3463, 3548-3549
Lantana camara 77, 187, 192, 993, 2776, 3038, 3676
Lappula echinata 2192
Lapsana communis 2060
Larix 87
Larix leptolepis 91
Larrea tridentata 1685, 3679
Lathyrus aphaca 2352, 3278
Lathyrus montanus 2019
Lathyrus odoratus 3561
Lathyrus tuberosus 1907
Leeks 1949, 2086
Leersia 3341, 3343
Leersia hexandra 1089, 2234, 3078
Leersia japonica 3076, 3669
Leersia oryzoides 671, 1226, 1593
Legislation
herbicides 3388, 3412
Canada 1485
Czechoslovakia 262, 3177
Romania 3783
UK 570
USA 263, 841, 1491, 1989
California 1168-1169
USSR 840
residues 3001
weed control
Australia 2524, 2947
biological control 2947
UK 416
Legislation *cont.*
weed control *cont.*
USA, California 1991
Legousia hybrida 477
Leguminosae 1062
Lemna 1145, 1402, 2164
Lemna gibba 144-145, 1029, 1129, 1375, 1378, 1436, 1460, 2342
Lemna minor 487-488, 733, 802, 825, 1522, 2499, 3635, 3656
Lemna oligorhiza (*see Spirodela oligorhiza)*
Lemna paucicostata 1377, 1405, 1435, 1459-1460, 1465, 2138, 2498
Lemna perpusilla 179
Lemna polyrhiza (*see Spirodela polyrhiza)*
Lemna trisulca 1402
Lemna valdiviana 144-145
Lenacil
analytical methods
bioassays 1146
gas liquid chromatography 1146
thin layer chromatography 539
physiology
cytology, cell membranes 800
germination 1648
metabolism, chlorophyll 1648
morphology 1648
selection 2270
residues
atmosphere 539
plant residues 3011
soils 1146, 1620, 3151
water 3151
soils
adsorption 2928
degradation 2924, 2928
fertility 680
persistence 2928
usage
additives 47
application, methods 2060
climate 47
crops
cereals 1648
fodder crops 2060
ornamentals 3020
root crops 47, 346, 630-631, 911, 1254, 1257, 1618-1620, 1624-1626, 1699, 2057, 2700-2701, 2703-2704, 2706, 3510
small fruits 401, 663-664, 2733, 3021
tree fruits 680, 687
vegetables 1699, 3011
damage 346, 1620, 1626
mixtures 630, 1618, 1625-1626, 2700-2701
rates 630
sequences 630
tolerance 1055
weeds 495, 712
yields 2700, 3011, 3021
Lens culinaris 753, 904, 1546, 1565, 2385, 2689, 2711, 3307
Lentils 1073, 1598, 2980
Lepidium campestre 69
Lepidium draba (*see Cardaria draba)*
Lepidium latifolium 846
Lepidium virginicum 2812
Leptachoria chinensis 2846
Leptochloa 35
Leptochloa chinensis 321
Leptochloa fascicularis 678
Leptochloa filiformis 36, 2371, 3642
Leptochloa fusca 1776
Leptochloa panicea 36
Leptospermum scoparium 2862
Lespedeza stipulacea 158
Lettuces
bioassays 744, 1080, 2520, 3649
herbicide application
acid rain 1185
germination 2569
physiology 1143, 2578
residual effects 817
residues 1949
susceptibility 817, 860
tissue culture 2578
Lettuces *cont.*
weed control
chemical control
chloramben 386
chlorpropham 386
thiobencarb 386
weeds
allelopathy 161, 1046, 1175, 2520, 2811, 3300
competition 3300
hosts of plant pests 3336
seeds 2520
soils 3300
Leucaena glauca 3191
Leucaena leucocephala 3255, 3336
Leucus aspera 3301
Ligustrum japonicum 3565
Liliaceae 441
Lilium 3561
Limnocharis 1847
Limonium 3561
Limonium sinuatum 1302, 3018
Linaria 661
Linaria vulgaris 1686
Linum catharticum 477
Linum usitatissimum
herbicide application
damage 363, 1620
physiology 3128
quality 2175
residual effects 1585
weed control
chemical control
barban 1000
bentazone 363, 919
chlorsulfuron 3515
clopyralid 363
dalapon 920
diclofop 1000
diquat 363
glyphosate 363
haloxyfop 363
linuron 363
MCPA 919
metolachlor 920
paraquat 363
quizalofop 865
sethoxydim 363
TCA 920
tri-allate 920, 1000
management
cropping systems 1000
fallow systems 1000
recommendations 870
weeds
competition 474, 2175
distribution 750
parasitic weeds 2550
seeds 1000, 2175
surveys 1049
yields 474, 2175
Linuron
analytical methods
bioassays 548
gas chromatography 1142, 2911
gas liquid chromatography 1141
mass spectrometry 2911
formulations, granules 41
physiology
cytology, chloroplasts 1472
germination 1648
metabolism
amino acids 2707
carbohydrates 2707, 2894
carotenoids 2707, 3383
chlorophyll 1648
enzymes 232
nutrients 232
proteins 2707
vitamins 2406
mode of action 232, 1432
morphology 1648
photosynthesis 232
residues
plant residues 637, 941, 3164
soils 637, 941, 1620, 2016, 3151, 3164
water 2911, 3151
soils
adsorption 2611
degradation 941, 2611

Linuron *cont.*
soils *cont.*
mesofauna 3772
movement 2391, 2611
persistence 2611
photolysis 2927
runoff 2391, 2911
toxicology
aquatic organisms 2602
arthropods 3772
disposal 552
fishes 2602
usage
approval schemes 3177
compatibility, herbicides 3573
crops
cereals 12-13, 15, 32, 589, 594, 610, 886, 1563, 1648, 3029, 3195, 3442, 3453
fibre plants 363, 2122
forests 82, 977, 3264
legumes 39, 333-334, 339-342, 1240-1241, 1252, 1281, 1601, 1672, 2391, 2685, 2689, 2695, 2982, 2988, 2992, 3195, 3216, 3499, 3554
oil plants 1269-1271, 2413, 3526-3527
root crops 49, 353, 637, 914, 2061, 2067, 2407, 2707, 2804, 3195
small fruits 657, 3573
tree fruits 3573
vegetables 63, 646, 941, 1288-1289, 2086
damage 610, 1270, 1620, 1672, 2016
diseases 1574
economics 3000
mixtures 1227, 2407, 2988, 3526, 3573
pests 3772
quality 634
rescue crops 1620
residual effects 548, 2016
safeners 3580
selectivity 2685
soils 2016
synergism 3573
tolerance 1055
weeds 495, 708
yields 1252, 1270, 1563, 2689
Liquidambar styraciflua 1728, 2749
Liriodendron tulipifera 1331, 2450
Lithocarpus densiflorus 3256
Littorella uniflora 1441, 1799
Lobelia dortmanna 1441
Lolium 958, 1200, 1204, 1241, 1481, 1823, 2510, 3173
Lolium multiflorum 59, 216, 248, 361, 724, 1201, 1988
herbicide application
damage 883, 1620
residues 2308
soils 2308
weed control, chemical control 1655
weeds, seeds 1830, 2136
Lolium multiflorum **var.** ***westerwoldicum*** 1424, 3433, 3758
Lolium multiflorum **(weed)** 1669, 1830, 3027, 3453
Lolium perenne
bioassays 2010, 2012
herbicide application
chemical composition 369
sward renovation 3539
tolerance 1275, 2011
yield 930
weed control
chemical control 1655, 1660
asulam 58
benfluralin 396
bensulide 396
chlorthal-dimethyl 957
2,4-D 957
dicamba 957
dichlorprop 957
diclofop 957
difenzoquat 2078
ethofumesate 399
Lolium perenne *cont.*
weed control *cont.*
chemical control *cont.*
fenoxaprop 396, 957
glyphosate 58, 837, 2427
haloxyfop 1661
oxadiazon 396
paraquat 1661
pendimethalin 396, 957
prodiamine 396
sethoxydim 1661
tridiphane 396, 957
weeds
competition 475, 1416
seeds 164, 2136
tolerance 1306
yields 475
Lolium perenne **(weed)** 284, 1096, 1214, 1701, 3543
Lolium remotum 920
Lolium rigidum 472, 2593
Lolium temulentum 1802, 1851, 2352, 2413, 3599
Lolium **(weed)** 1269
Lonicera tatarica 977
Loranthaceae 765, 1859
Lotus corniculatus 210, 643, 2082, 2581, 3646
Lotus pediculatus 979
Ludwigia erecta 36
Ludwigia octovalvis 321, 2530, 3486
Ludwigia peploides 175
Lupinus 2187
Lupinus albus 1599
Lupinus angustifolius 472, 1599, 2510
Lupinus leucophyllus 1282
Lupinus luteus 1599
Lupinus mutabilis 1599
Lutidine, (*S*)-*N*-(methylbenzyl)carbamoyl-5-propionyl-2,6- 812
Lynchnis alba *(see Silene alba)*
Lythrum salicaria 2762
Macaranga 77
Macroptilium lathyroides 1876
Macrosolen cochinchinensis 764
Mahonia aquifolium 3315
Maize
bioassays 162, 883, 2367, 2428, 3156
herbicide application 1547
breeding for herbicide resistance 218, 520, 3210
climate 2035
compatibility 2971
damage 364, 548, 812, 886, 1464, 1620, 3466-3467
genetics 3373
germination 3373
growth 301, 3373
interactions 794, 2616
irrigation 866, 3200
mycorrhizas 1156
no-tillage 2370
physiology 206, 214, 222, 287, 301, 514, 794, 812, 1113, 1124, 1143, 1476, 1478, 1884, 2253, 2260, 2267, 2574, 3130, 3373, 3727-3728, 3739
quality 297
rain 3200
residual effects 548, 1218, 1546, 2016, 2054, 2981
residues 308, 1216, 1487, 2598, 2918
safeners 28, 156, 287, 316, 612, 866, 886, 889, 1213, 1464, 1588, 1590, 2009-2010, 2355, 2646, 2673, 2972
selectivity 364, 2010, 2646
soil mesofauna 559
soils 1212, 2035, 2609, 2668, 3399, 3764
susceptibility 283, 2659
tissue culture 214
tolerance 817, 2011, 2016, 2260, 2369, 2428, 2574, 3141, 3210, 3739
varietal susceptibility 310, 520, 3141, 3724
yields 29, 156, 310, 894, 1211, 2370, 2374-2375, 2673, 2675, 3466-3467
Maize *cont.*
residues
animal products 308
plant residues 308
soils 308
weed control 893, 3421, 3468
biological control
fungi 3692
mammals 3706
mycoherbicides 3692
chemical control 307, 338, 896, 2012, 2355, 2459, 2813, 3219, 3440, 3475, 3803
acetochlor 2675, 3469
aclonifen 29
alachlor 27, 309, 313-314, 317, 888, 1219-1220, 1581, 2037, 2042, 2356, 2371, 2374, 2675, 2964, 2970, 3469
ametryn 2039, 2041, 2373
atrazine 29, 310, 312-313, 613, 761, 866, 885-886, 888-891, 894, 1156, 1212-1213, 1216, 1219-1220, 1582-1583, 1585-1586, 1590, 1607, 1619, 2034, 2036, 2038-2041, 2356, 2371, 2374, 2624, 2670, 2672, 2964, 3208, 3211, 3469, 3472
bentazone 29, 1219, 1607, 2969
bromofenoxim 310, 2671-2672
bromoxynil 311, 2034, 2039, 2670-2671, 2969
butylate 314-316, 561, 1220, 2040, 3471
chloridazon 1156
clopyralid 892
cyanazine 312-313, 894, 1219, 2672
cycloate 314-315
2,4-D 606, 889-890, 892, 894, 1213, 1217, 1219, 1590, 2020, 2036, 2039, 2369, 2371, 2373, 2669, 2671, 3473
2,4-DB 2969
dicamba 310-311, 886, 1219, 1590, 2020, 2373, 2669
diflufenican 2009
EPTC 309, 314-316, 561, 612, 866, 886, 889, 1213, 1220, 1588, 1590, 1607, 2037-2040, 2356, 2374, 2670-2671, 2969-2970, 3471
ethiolate 891
fenuron 2374
flamprop 2369
fluazifop 3466
fluchloralin 585
flurochloridone 314
fluroxypyr 29
glufosinate 1583
glyphosate 837, 892, 894, 1214, 1219, 1584, 1587, 2373, 2375, 2671, 3466
haloxyfop 3466
ioxynil 2373
linuron 886, 3000
MCPA 2020
methabenzthiazuron 1156
metham 647
metolachlor 309, 313-314, 866, 1219, 1607, 2038, 2040-2042, 2670, 2672, 2969, 3469
molinate 2020
paraquat 894, 1214, 2373
pendimethalin 313, 1219, 2670
picloram 606, 895, 2373
prometryn 886, 1213, 1588, 1590, 2037
propachlor 886
propanil 2020
pyridate 310, 1219, 2969
sethoxydim 3473
simazine 308, 313, 886, 1213, 1582, 2042, 2971, 3465
2,3,6-TBA 606, 890
terbuthylazine 2671-2672

Maize *cont.*
weed control *cont.*
chemical control *cont.*
terbutryn 891, 894, 2040, 2671, 3000
tridiphane 312, 1915, 2624, 3472
trifluralin 2356
vernolate 315-316, 2969
cultural control 29, 307, 2034, 2674, 3219
cultivation 1584, 2020, 2336, 3209
direct sowing 1583
discing 1214, 2336
harrowing 2336
hoeing 585, 2671
manual weed control 613, 2033, 2371
mulching 2371
ploughing 1214, 1584, 2371
rotary cultivation 1584
economics 264, 613, 887, 1170, 1213, 1589
energy requirements 585, 1213
integrated control 613, 889, 892, 1213
management 2813
cropping systems 1048, 1215, 2708
intercropping 3303
rotations 1048, 3199
minimum tillage 1586, 3200, 3471
no-tillage 2, 1358, 1586, 1933, 2965, 3200, 3208, 3474
recommendations 868, 1219, 2122, 3207, 3470
surveys 3436
weeds
allelopathy 162, 1046, 1175, 2811-2812, 3717
competition 29, 156, 361, 1034, 1104, 1211, 1358, 1417, 1805, 1869, 2137, 2167, 2170-2172, 2352, 2371-2372, 2509, 2792, 3302-3303, 3638
crop losses 2170, 2352
damage 893
distribution 495, 751, 1050, 2197, 2526
hosts of plant pests 1449, 2231, 2842, 3345, 3706
parasitic weeds 1081, 2832
seeds 761, 1846, 2134, 2372, 3308
surveys 482, 1805, 2035, 2134, 2183, 2194-2195, 2815
yields 893, 1211, 1449, 1869, 2033, 2167, 2170-2172, 2371, 2509, 3302
Maize (weed) 41, 2984
Malaysia
flora 179
reports 2950
weed control, surveys 964
Maleamic acids 1909
Maleic hydrazide
usage
compatibility, growth regulators 2441
crops
plantation crops 639
small fruits 2735
interactions 2441
parasitic weeds 2735
Maleimides 1909
Malva neglecta 3026
Malva parviflora 1864, 2841
Mannagettaea hummelii 2132-2133
Mariscus alternifolius 2526
Marrows 2431
Marsilea minuta 321, 325, 3486
Matricaria 10-11, 584, 595, 950, 1192, 1554, 1568, 1612, 1621, 1632, 1641, 1692, 2024, 3441, 3443, 3449, 3462
Matricaria chamomilla (*see Chamomilla recutita)*
Matricaria inodora (*see Matricaria perforata)*
Matricaria matricarioides (*see Chamomilla suaveolens)*
Matricaria perforata 291, 362, 469, 481, 603, 605, 737, 756, 795, 803, 877, 885, 919, 934, 987, 1035, 1420, 1613, 1817, 1972, 2028, 2037, 2060, 2182-2183, 2999, 3048, 3310, 3442, 3444, 3513, 3593, 3652, 3718
Matricaria recutita (*see Chamomilla recutita)*
Matthiola 3561
MCPA
analytical methods
gas chromatography 1921, 1923
mass spectrometry 1921
physiology
anatomy 1105
germination 1648
metabolism
amino acids 2359
ammonia 220
carbohydrates 805
chlorophyll 1648
proteins 2359
mode of action 805
morphology 609, 1648
residues
soils 3151
water 3151, 3748
soils
photolysis 1966
types 3397
vaporization 2311, 3397
water rates 2311
usage
antagonism 2658, 2966
application, methods 592, 3583
cold tolerance 2026
compatibility, herbicides 2660
crops
cereals 21, 289-290, 293, 300, 592, 600, 609-610, 864, 1202, 1207, 1225-1226, 1560, 1567, 1570, 1593, 1648, 2020, 2026, 2030-2031, 2364, 2662, 2666, 2966, 3195, 3197, 3439, 3443, 3446, 3448, 3460
fibre plants 919
forests 410, 3579
grasslands 54, 369, 930, 1654, 1657, 2078, 2425, 3538
legumes 864, 3195, 3197
oil plants 1267
root crops 2062, 3195
small fruits 756, 2104
tree fruits 965
damage 609-610, 3460
economics 1207, 3439
mixtures 1560, 1570, 2966
no-tillage 2425
quality 369
rates 592
resistant weeds 1474
sward destruction 2425
sward renovation 1678
tolerance 1055
weeds 987, 989
yields 21, 930, 1207, 1267, 2062, 2359
MCPB
analytical methods, gas chromatography 1923
usage
crops
cereals 371
fodder crops 1667
grasslands 54, 2078
legumes 371
nodulation 1597
Mecoprop
analytical methods
gas chromatography 1921, 1923
mass spectrometry 1921
chemistry
structure activity relationships 1579
synthesis 3447
formulations 3447
physiology
morphology 779
photosynthesis 527
residues, water 2290
Mecoprop *cont.*
soils
degradation 3395
fertility 3450
microorganisms
bacteria 3395
fungi 3395
straw 3395
toxicology, contaminants 2290
usage
application
equipment 3173
methods 592, 3583
compatibility
fungicides 3395
growth regulators 3395
herbicides 3395
insecticides 3395
crops
cereals 7, 10, 15, 24, 288-289, 291, 584, 589-590, 592, 610, 878, 1225, 1567, 1577, 1579, 2021, 2029-2030, 2364, 2666, 3442-3444, 3447-3448, 3450, 3461-3462
forests 1733
grasslands 2719, 3538
lawns and sports turf 397, 1308, 2434
oil plants 1267
damage 24, 67, 304, 610, 779, 1733
mixtures 291, 304, 3444
rates 592
tolerance 1055
weeds 987, 989
wetters 67, 304
yields 1119, 1267, 1577, 3450
Medicago denticulata 16, 1207
Medicago lupulina 504, 2434, 2851
Medicago polymorpha 1082, 3536
Medicago sativa 2079
bioassays 2520
herbicide application
damage 372, 2418
irrigation 866, 1964
nodulation 2321, 2939
physiology 222, 2572, 3739
residual effects 817
safeners 866
selectivity 2572
soils 2418
susceptibility 373, 817
sward renovation 3539
tolerance 3739
varietal susceptibility 372
weed control
biological control 1665
chemical control 1420, 1665-1666, 2012, 2419
benfluralin 642
bentazone 2969, 3197
bromoxynil 642, 2969
chlorazifop 1670
2,4-DB 371, 1667, 2080, 2721, 2969
diuron 2080
EPTC 612, 866, 1664, 2420, 2969
fenoxaprop 373, 1670
fluazifop 373, 642, 2721
glyphosate 2421, 2721
haloxyfop 2721
hexazinone 2080, 2351, 2418
MCPA 3197
MCPB 371
metolachlor 2969
metribuzin 586, 2080
norflurazon 1668
paraquat 1653, 2080
pyridate 2969
sethoxydim 642, 1669
simazine 2080
trifluralin 1664
vernolate 2969
cultural control 1420, 1665, 2081
direct sowing 1653
economics 3099
management 1420
cropping systems 1048
fertilizers 2079

Medicago sativa *cont.*
weed control *cont.*
management *cont.*
rotations 1048
surveys 3436
weeds
allelopathy 2520, 3666
competition 1104, 2536, 2807, 3003, 3099
contamination 486
hosts of plant pests 2233
parasitic weeds 187, 1665, 2421, 2832, 3328, 3666, 3668
plant pests 2807
population dynamics 2536
seeds 2520
surveys 754
yields 1043, 3099
Medicago sativa **(weed)** 3474
Medinoterb, soils, microbial activities, respiration 829
Mediterranean
flora 455
weed control, parasitic weeds 1075
Mefluidide
physiology
climate 794
metabolism 794
usage
additives 3218
compatibility, herbicides 2692
crops
cereals 2382, 3490-3491
grasslands 1660
legumes 3218
mixtures 3218
quality 3491
sward renovation 1660
yields 3491
Melaleuca armillaris 68
Melampodium divaricatum 2371
Melampodium hispidum 2495
Melandrium album 2488
(see Silene alba)
Melastoma malabathricum 972
Melilotus 2721
Melilotus alba 2352, 2362
Melilotus indica 1082, 2352
Melilotus polymorpha 2059
Melilotus sicula 1082
Melinis minutiflora 55
Melons 645, 1118, 2832
Mentha piperita 2740
Mentha spicata 3545
Mercurialis 1692, 2056
Mercurialis annua 348, 630, 1632, 1814, 2028
Merremia dissecta 1099
Merremia umbellata 36
Metamitron 350
analytical methods, gas chromatography 1140
physiology
enzymes 3771
photosynthesis 1821, 3771
residues
plant residues 1140
soils 1140, 1620
water 1140
soils
degradation 2305
microbial degradation 2305
microorganisms, cyanobacteria 3771
types 2305
usage
additives 47, 349
climate 47
crops
root crops 46-47, 346, 349, 1584, 1608, 1612, 1620, 2056, 2058, 2404
small fruits 3021
damage 346, 1620
mixtures 349, 2404
wetters 349
yields 3021
Metazachlor 2646
physiology
cytology 3721
metabolism
enzymes 3721
Metazachlor *cont.*
physiology *cont.*
metabolism *cont.*
lipids 3721
photosynthesis 3721
uptake 3721
residues
plant residues 1949
soils 1949
soils
degradation 2305
microbial degradation 2305
persistence 2012
types 2305
usage
crops
cereals 2012
oil plants 1271, 1640
ornamentals 3020
plantation crops 365
small fruits 3021
tree fruits 407
yields 3021
Metflurazon
physiology
metabolism
enzymes 1475
pigments 1475
mode of action 1475
usage
antagonism 1889
synergism 1889
Methabenzthiazuron
physiology
metabolism
amino acids 2707
carbohydrates 2707
carotenoids 2707
proteins 2707
photosynthesis 1821
residues
soils 1620, 3151
water 3151
soils
microbial activities
enzymes 1155, 2366
nitrogen fixation 1155
respiration 1155
microorganisms
cyanobacteria 2319
mycorrhizas 1156
types 1155
usage
aquatic weeds 425
crops
cereals 13-14, 17, 588, 594, 880, 1561, 1569, 2030, 2032, 2363, 2366, 2976, 3029, 3202, 3442, 3455
culinary herbs 3016
fodder crops 1283
legumes 38, 2388, 2687, 3216, 3554
rangelands 60
root crops 2707
vegetables 1289, 2086, 2384, 2728, 3242
damage 60, 880, 1620, 2728, 2976
economics 2388
mixtures 880
rescue crops 1620
yields 60, 2388, 2976, 3016
Metham 669
analytical methods, high performance liquid chromatography 2912
usage
application, methods 3556
crops
cereals 647
forests 3579
plantation crops 639
root crops 647
vegetables 647, 650, 1694, 3555-3556
persistence 3555
soils 3555
Methazole
physiology
metabolism
nitrate nitrogen 3010
nutrients 3010
Methazole *cont.*
physiology *cont.*
uptake 3010
usage, crops, tree fruits 687
Methoprotryne
usage
crops, cereals 610
damage 610
tolerance 1055
Methyl bromide 1694
Metobromuron
analytical methods
bioassays 281
gas liquid chromatography 1141
residues
plant residues 637
soils 637
soils
moisture 281
persistence 281
photolysis 2927
temperature 281
toxicology
aquatic organisms 2602
fishes 2602
usage
crops
legumes 2395, 3499
oil plants 1269-1271, 2413, 3527
plantation crops 76
root crops 637, 2064, 2067
vegetables 387, 3544
damage 1270
quality 634
rescue crops 281
weeds 495
yields 1270, 2395
Metolachlor
analytical methods
bioassays 1516
gas chromatography 2911
gas liquid chromatography 1933
mass spectrometry 2911
thin layer chromatography 1516
formulations 2942
pellets 248
physiology
cytology 3721
protoplasts 2271
degradation 1125
germination 1648
metabolism
chlorophyll 1648
enzymes 1125, 3721
lipids 3721
nucleic acids 2271
peptides 3739
morphology 1648
photosynthesis 3721
uptake 3721
residues
atmosphere 1947
plant residues 2674, 3011
soils 2674
water 2911
soils
adsorption 3504
irrigation 866
mesofauna 2693
microbial degradation 1516
microorganisms
bacteria 1516
fungi 1516
movement 2605
rain 2605
runoff 2911
types 2605
toxicology, disposal 552
usage
application, methods 314
crops
cereals 264, 313-314, 318, 614, 866, 1607, 1648, 2038, 2041-2042, 2670, 2672, 2942, 3467, 3469-3470, 3475, 3479-3480, 3735
fibre plants 920
fodder crops 2969
forests 3024
legumes 333, 337, 1241, 1252, 1598, 1601, 2091, 2395,

Metolachlor *cont.*
usage *cont.*
crops *cont.*
legumes *cont.*
2693, 2969, 2986, 2992, 3475, 3504, 3506, 3508, 3548, 3550
oil plants 918, 1267, 1269, 2413, 3526-3527
ornamentals 69, 652, 1301
plantation crops 2111, 3531
rangelands 3237
root crops 633, 1257, 1607, 1625, 2057-2058, 2064, 2403, 2407, 2700-2701, 2706, 2804, 3513
small fruits 1318, 1703
vegetables 374, 1289, 1295, 1297, 1695, 2430, 3011, 3544
damage 2038, 3467, 3480, 3504, 3506, 3548
economics 264
injury 2271
minimum tillage 2038
mixtures 1625, 2403, 2407, 2700-2701, 3526
no-tillage 318, 2038
quality 3504
recommendations 918
safeners 309, 614, 897, 1125, 2271, 2377, 3237, 3480
selectivity 3548
tolerance 1055
weeds 336, 1353
yields 1252, 1267, 1695, 2038, 2395, 2693, 2700, 2969, 3011, 3467, 3479-3480, 3504, 3508
Metoxuron
analytical methods 1201
chromatography 1928
gas liquid chromatography 1141
residues, plant residues 1928
soils, microbial activities, enzymes 2366
usage
aquatic weeds 425
crops
cereals 17, 155, 1201, 1207, 2029, 2362-2363, 2366, 3029, 3439, 3455
vegetables 2384
diseases 1574
economics 1207, 3439
tolerance 1055
yields 1207
Metribuzin
analytical methods
bioassays 281, 823, 2914
thin layer chromatography 815
formulations
flowables 3776
pellets 248
mode of action 1879
physiology 1879
absorption 205, 3121
degradation 916, 3741
enzymes 3771
germination 302
metabolism 1905, 3741
amino acids 916, 2256, 2707, 2900-2901
carbohydrates 916, 2256, 2707
carotenoids 2707
lipids 533, 2256
peptides 916
proteins 2707, 2900-2901
mode of action 530, 533-534, 1432
photosynthesis 530, 533, 1821, 1858, 2914, 3741, 3771
respiration 530
stomata 534
translocation 205, 530
transpiration 534
water relations 65, 534
residues
plant residues 637
soils 394, 637
soils
degradation 2305, 2924
fertility 680
irrigation 866
Metribuzin *cont.*
soils *cont.*
microbial degradation 815, 2305
microorganisms
actinomycetes 2318
bacteria 2318
cyanobacteria 3771
fungi 815, 2318
moisture 281, 1517
movement 1517, 2316
organic matter 927
persistence 281, 823, 1973
pH 823, 1973
temperature 281, 1517
types 927, 2305
toxicology, disposal 552
usage
additives 3757
application, methods 249, 1239, 3172, 3776
climate 3776
compatibility
fertilizers 2329
herbicides 2657, 2660
insecticides 1600
crops
cereals 300, 1204, 1211, 1517, 1564, 1572, 1576, 1592, 2657, 2663-2664
culinary herbs 3016
fallow 939
fibre plants 1211
fodder crops 586, 1283
lawns and sports turf 394, 656, 1308
legumes 328-329, 339, 341-342, 586, 621, 624, 866, 1211, 1239-1242, 1244-1245, 1603, 2052, 2080, 2386-2387, 2695, 2982, 2986, 2988, 2992-2993, 3217, 3475, 3499
medicinal herbs 973
root crops 48-49, 353, 357, 530, 534, 586, 632-633, 637, 914, 1263, 1637, 2063, 2067, 2407, 2700, 2707, 2804, 3513
small fruits 2734
tree fruits 680
vegetables 65, 586, 939, 946, 1695, 2384, 2429-2430, 2728, 3015, 3557
damage 372, 380, 530, 534, 946, 1245, 1517, 1564, 2728, 3757
diseases 1454, 1576
economics 1244
energy conservation 1244
incorporation 2052
interactions 1454
minimum tillage 1517
mixtures 586, 866, 1227, 1571-1572, 2407, 2664, 2700, 2988
no-tillage 1517
nodulation 1597
non-crop weed control 2765
quality 634, 3015
rescue crops 281
resistant weeds 1474
safeners 3757
yields 302, 380, 1262, 1564, 1695, 2700, 3016
Metroxylon sagu 276
Metsulfuron
chemico-physical properties 292
physiology
photosynthesis 1900
respiration 1900
transpiration 1900
residues, soils 1332
soils
degradation 292, 1151
movement 292
persistence 1151
toxicology 292
usage
compatibility, insecticides 1203
crops
cereals 10, 289-290, 292, 1203, 1558, 1591, 2648, 3443, 3462
Metsulfuron *cont.*
usage *cont.*
crops *cont.*
fodder crops 1591
forests 91, 1332, 1733, 1738, 2445
lawns and sports turf 1309
legumes 1673
rangelands 60, 1276, 1686
damage 60, 1203, 1733
persistence 2648
safeners 28
weeds 984, 1746
wetters 1332
woody weeds 1276, 1332, 1738
yields 60, 292, 1203
MG-191 2673
MG-235 2673
MG-89 480 3513
Mikania 77, 1718, 3709
Mikania cordata 77
Mikania cordifolia 3717
Mikania micrantha 1100, 2245, 2533, 3437, 3600, 3676
Millets 2832
Mimosa 1718, 2245
Mimosa pigra 179, 2724, 3418
Miscanthus sinensis 56
Molinate
properties, volatility 1965
residues, atmosphere 2915
soils
degradation 830
evaporization 1965
microbial activities 2314
microbial degradation 2314
microorganisms
actinomycetes 830, 2314
bacteria 830, 2314
fungi 830
types 3397
vaporization 2311, 3397
water rates 2311
toxicology
air pollution 2915
fishes 3753
usage
crops, cereals 32, 899, 901-902, 1225-1226, 1593, 1596, 2020, 2382, 2678, 2682, 3483, 3492
damage 3483
economics 3492
green manures 2048
irrigation 899
quality 3492
safeners 3753
yields 899, 3492
Molinia caerulea 2179
Mollugo verticillata 925, 1698, 2734
Momordica charantia 3717
MON 0818 2885
Monalide, usage, crops, vegetables 379, 387
Monochoria korsakowii 483
Monochoria vaginalis 320-321, 902, 1088, 2800, 2905, 3357-3358
Monolinuron
analytical methods, gas liquid chromatography 1141
formulations
controlled release 1522
wettable powders 1522
physiology, metabolism, vitamins 2406
soils
adsorption 3760
cation exchange 3760
degradation 3760
leaching 3760
types 3760
vaporization 3760
toxicology
aquatic organisms 2602
fishes 2602
usage
compatibility, herbicides 3573
crops
cereals 12
legumes 2090-2091, 3548, 3550
oil plants 918, 2413
root crops 353, 914, 2061
small fruits 3573

Monolinuron *cont.*
usage *cont.*
crops *cont.*
tree fruits 3573
vegetables 63
damage 2090, 3548
mixtures 3573
quality 634
recommendations 918
selectivity 3548
synergism 3573
weeds 495
Monuron
analytical methods, chromatography 540
physiology, photosynthesis 228
soils, photolysis 2927
toxicology
aquatic organisms 2602
fishes 2602
usage
crops
small fruits 676
tree fruits 676
Morrenia odorata 788-789, 2247, 2853
Morus alba 3315
MSMA
analytical methods
bioassays 548
liquid chromatography 556
formulations 3032
physiology
absorption 3171
translocation 3032, 3171
residues
plant residues 1488
soils 556, 1488, 2016, 2281
soils
degradation 556, 2281
microbial activities, nitrogen fixation 2618
moisture 2281
usage
additives 3171
climate 1639
crops
cereals 2281
fibre plants 1639, 2070, 2122, 3516, 3520
forests 1488
lawns and sports turf 397, 956, 1308-1309, 1315
legumes 1240
plantation crops 964, 2111
damage 2016
economics 964
residual effects 548, 2016, 2281
soils 2016
weeds 1353, 2463
yields 3520
Muhlenbergia montana 2835
Muhlenbergia schreberi 1340
Muhlenbergia tenuiflora 402
Murdania nudiflora 3486
Muscari neglectum 2437
Musk melons 382, 3557
Mycoherbicides 252, 778, 780-781, 788, 841, 1096-1097, 1610, 2245, 2561, 2761, 2853, 2856-2857, 3351, 3692
Myosotis arvensis 11, 605, 1156
Myriophyllum 497, 744, 3065, 3651
Myriophyllum alterniflorum 175
Myriophyllum aquaticum 2538
Myriophyllum spicatum 106, 197, 419, 466, 770, 1162, 1403, 1831, 2452, 2478, 2755, 2914, 3656
NAA 3621
Najas 484, 1087, 3270
Najas armata 99
Najas flexilis 427
Najas marina 160
Najas minor 421
Nandina domestica 1303
1,8-Naphthalic anhydride 2009, 2012, 2355, 2646, 2972, 28, 1464
Napropamide
residues
plant residues 948
soils 394
soils
adsorption 2930
Napropamide *cont.*
soils *cont.*
leaching 243
microbial activities 948
usage
crops
culinary herbs 974
forests 80, 88, 976, 3025
lawns and sports turf 394, 397, 3245
medicinal herbs 973
ornamentals 66, 389-390, 1302, 3018
plantation crops 76, 1647, 3576
small fruits 659, 662-663, 672, 1702, 2107, 2733, 3021
tree fruits 659, 686-687, 1324-1325, 2107
vegetables 375, 942, 948, 1299, 1695, 2429-2430, 3015, 3544, 3547
damage 3025
irrigation 942, 1299
quality 3015
safeners 3580
yields 1695, 3021
Naptalam
usage
crops, legumes 2695, 3226-3227, 3414, 3505, 3508-3509
damage 3227, 3505, 3509
economics 3414, 3509
mixtures 2731
quality 3505
safeners 2731
yields 3505, 3508-3509
Narcissus 441
Nardus stricta 2239
Nassella trichotoma 273, 2492
Neburon
analytical methods, gas chromatography 1142
residues, soils 1290, 1620
usage
approval schemes 3177
crops
cereals 13, 2360
legumes 2090, 2685-2686, 3548, 3550
oil plants 1270
vegetables 1290, 2086
damage 1270, 1620, 2090, 3548
diseases 1574
rescue crops 1620
selectivity 2685-2686, 3548
weeds 495
yields 1270
Nechamandra alternifolia 421
Nephrolepis biserrata 964
Netherlands, weed control, organization of research 101
Neurolaena lobata 3717
New Zealand
flora 3193
herbicides, reviews 3192
weed control
biological control 2862
recommendations 693
Nicandra physalodes 2035
Nicotiana plumbaginifolia 2270
Nicotiana xanthi 2274
Nicotinic acid, 5-ethyl-2-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)- 333, 337, 649, 1246, 1666, 2010, 2419, 2606, 2609
Nitala 480 3513
Nitella acuminata 758
Nitella hyalina 758
Nitella opaca 182
Nitellopsis obtusa 1439
Nitrobenzoate, 1-(carboethoxy)ethyl 5-[2'-chloro-4'-(trifluoromethyl)phenoxy]-2- 438
Nitrofen
analytical methods
colorimetry 541
gas liquid chromatography 1925
physiology
metabolism
amino acids 2707
carbohydrates 2707
Nitrofen *cont.*
physiology *cont.*
metabolism *cont.*
carotenoids 2707
proteins 2707
mode of action 3720
photosynthesis 3720
residues
plant residues 1925
soils 1290, 1620
soils, microbial activities, nitrogen fixation 2618
usage
approval schemes 3177
crops
cereals 13, 26, 322, 610, 2360, 2661, 2979
legumes 328, 627, 3222, 3554
oil plants 2411, 2690
root crops 2707
vegetables 1284, 1290, 2384, 2431, 2727-2728, 3557
damage 610, 1620
diseases 1574, 2412, 2620
persistence 2431
rescue crops 1620
yields 26
Norflurazon
analytical methods, bioassays 3147
application
equipment 3777
methods 3777
physiology
absorption 3120
metabolism, carotenoids 3139
mode of action 3139
translocation 3120
uptake 3120
soils
degradation 3156
leaching 3156
microbial degradation 3756
organic matter 3756
persistence 240, 3756
usage
application, equipment 2946
crops
fibre plants 3520
legumes 1668, 3506, 3777
ornamentals 1303
small fruits 659, 671, 1703, 1709
tree fruits 659, 687, 962, 1324, 1715
damage 671, 3506
yields 671, 3520
North America, flora 2790
Nothofagus fusca 3261
Nothofagus menziesii 3261
Nuphar alba 176
Nuphar lutea 176, 464, 490, 806, 2141
Nymphaea 801
Nymphaea alba 464, 490, 846, 1788, 2141
Nymphaea candida 490, 1788, 2141
Nymphaea lotus 1788
Nymphaea stellata 1788, 2454
Nymphaea tetragona 1788
Nymphaea tuberosa 1788
Nymphoides peltata 420, 464, 490
Oats
bioassays 1218, 1973
herbicide application
acid rain 1185
damage 13, 1195, 1210, 1620, 3433
growth 1473
physiology 517-519, 522, 1126, 1473, 2579, 3361, 3732
residual effects 816, 875, 1195
residues 816
safeners 1210
susceptibility 875, 1473
tolerance 2011
varietal susceptibility 13, 15
water stress 1210
yields 13, 2667, 3446-3448
weed control
chemical control 289, 1420, 3448
bromofenoxim 592
bromoxynil 592
chlorotoluron 592
2,4-DB 371

Oats *cont.*
weed control *cont.*
chemical control *cont.*
dicamba 592
dichlorprop 3447
flurenol 592
MCPA 592
MCPB 371
mecoprop 592, 3447
terbuthylazine 592
cultural control 1420
economics 1170
integrated control 2649
management 1420
weeds
contamination 2337
distribution 750-751, 2529
hosts of plant diseases 2556
seeds 3047-3048
surveys 1049, 2183, 2187
Oats (weed) 904, 1201, 2732
Odontites verna 477, 1406, 3666
Oenothera laciniata 2662
Oenothera rosea 2373
Oenothera rubricaulis 2142
Oldenlandia lancifolia 2526
Olives 965, 3576-3577
Onions
herbicide application
damage 1620, 3010
nutrient uptake 3010
physiology 1472, 3010, 3733
selectivity 2010
tolerance 817, 2011
weed control
chemical control 646
chlorthal-dimethyl 940, 1288-1289
2,4-D 1288
fluazifop 940, 1284, 1289, 3546
ioxynil 940
linuron 941, 1288-1289
methabenzthiazuron 1289
metolachlor 1289
nitrofen 2727
oxyfluorfen 3009, 3546
prometryn 1288
propachlor 940-941, 1289
TCA 1288
trifluralin 941
cultural control, manual weed control 941, 2727
reviews 3008
weeds
allelopathy 1046
competition 2727
Onopordum acanthium 1007
Onopordum illyricum 1007
Opuntia aurantiaca 2492, 2866, 2872
Opuntia ficus-indica 2872, 3109-3110
Oranges 962
Orbencarb 2646
physiology
absorption 211, 1463
degradation 211, 2259
metabolism 1463, 2259
translocation 211, 1463
usage, crops, legumes 1601
Origanum vulgare 846
Ornithogalum umbellatum 441
Ornithopus compressus 58
Orobanche 860, 3324
biology
growth 1072
morphology 2132-2133
physiology 1071, 1074
reviews 1078
taxonomy 1061-1062, 2132, 2222
control
biological control 1859, 2549
insects 2850
chemical control 1077, 1859, 2385, 2836
chlorsulfuron 502
2,4-D 502
glyphosate 2550
cultural control 1859, 2836
fumigation 2729
solarization 3241
integrated control 2836
management 1690
Orobanche *cont.*
control *cont.*
management *cont.*
rotations 2717
manual weed control, mulching 2729
organization of research 1063
reviews 1063, 1078
ecology
competition 163
distribution 1061, 1075, 2832
habitats 1776
light 1066
minerals 1066
phenology 499
soils 1064
spread 2469, 2832
temperature 1066
water relations 1066
parasitic weeds 1101
seeds 2222
germination 2469, 2550
stimulants 1064-1065
soils 2223
structure 2132-2133
viability 2550
Orobanche aegyptiaca 1061-1062, 1074, 2222, 2469, 2729
Orobanche arenaria 2222
Orobanche caesia 2222
Orobanche cernua 1061-1062, 1071, 2132, 2469
Orobanche coerulescens 2132
Orobanche crenata 499, 1058, 1062, 1064, 1070-1071, 1073-1075, 2132-2133, 2469, 3056, 3325, 3664
Orobanche cumana 500-501, 926, 1076, 3323, 3665
Orobanche gamosepala 2132
Orobanche minor 1061
Orobanche mutelii 2222
Orobanche purpurea 2222
Orobanche pycnostachya 2132
Orobanche ramosa 639, 1061-1062, 1068-1069, 1071, 1776, 2222, 2550, 3241
Oryza 2993
Oryza barthi 166
Oryza obtusifolia 1789
Oryza officinalis 1789
Oryza perennis 1789
Oryza rufipogon 1789
Oryza sativa* f. *spontanea 1789
Oryzalin
application
equipment 3777
methods 3777
physiology, cytology, cell membranes 3732
soils
movement 2391
runoff 2391
toxicology, disposal 552
usage
crops
cereals 1196
culinary herbs 3016
forests 68, 80, 88, 2449, 3255
legumes 44, 1196, 1241, 1244, 1281, 2391, 3508, 3777
ornamentals 66, 68, 652, 951, 1301-1303
plantation crops 3576
small fruits 672, 674, 1703, 1707, 1709, 2107
tree fruits 679, 962, 1324-1325, 2107
economics 1244, 3255
energy conservation 1244
mixtures 3564
non-crop weed control 2765
residual effects 3016
safeners 3580
yields 3508
Ostrya virginiana 93
Ottochloa 3709
Oxabetrinil 1125, 2271, 2377, 2580, 2646, 3480
Oxadiazon
physiology, metabolism, chlorophyll 2274
residues, soils 394
Oxadiazon *cont.*
usage
additives 2380
application, methods 947
crops
cereals 36, 325, 898, 901, 1225, 2047, 2378, 2380, 2680, 3483, 3485
culinary herbs 3016
forests 976, 3025
lawns and sports turf 393-394, 396, 656, 952, 1308, 1310, 3245
legumes 2389, 3222-3223
oil plants 918, 2411, 2711, 2996
ornamentals 69, 1302, 2101, 3018
root crops 2405
tree fruits 687, 1324
vegetables 947, 2728
damage 2411, 2728, 3025, 3483
economics 2047
recommendations 918
residual effects 3016
weeds 428
yields 2047, 2389
Oxalis 3567
Oxalis acetosella 2540
Oxalis cernua *(see Oxalis pes-caprae)*
Oxalis corniculata 651, 1305, 2976, 3579
Oxalis pes-caprae 1790
Oxalis stricta 2142
Oxazolidine, 2,2-dimethyl-6-methyldichloroacetyl- 3237
Oxydendron arboreum 1334
Oxyfluorfen
physiology
cytology, cell membranes 3732
metabolism
amino acids 2707
carbohydrates 2707
carotenoids 2707
chlorophyll 3221
enzymes 2587
proteins 2707
mode of action 3720
photosynthesis 3720
soils
microbial activities, enzymes 3770
types 3770
usage
application, methods 2327, 3546
crops
cereals 32, 2967, 3485
fallow 939, 1555
fibre plants 1638
forests 976, 1337, 3262
legumes 1281, 2388, 2395, 2988, 3221
medicinal herbs 973
oil plants 2411
ornamentals 69, 391, 654, 1303
plantation crops 2111-2112, 2715
root crops 2707, 3553
small fruits 657, 659, 683, 1318, 1709, 2734, 3570, 3575
tree fruits 659, 683, 685-687, 962, 1324-1325, 2327, 3575
vegetables 375, 645-646, 939, 1292, 3009, 3544, 3553
damage 1318, 2411
economics 2388
mixtures 992, 1555, 2327, 2988, 3592
nodulation 3221
yields 2388, 2395
Oxytropis 3037
Oxytropis sericea 120, 1756
Paclobutrazol 668
Pakistan, flora 325, 1421, 2059, 2489
Panicum 672, 1631, 1718, 1730, 2061, 2479, 2984, 2993, 3473
Panicum boreale 402
Panicum capillare 1592, 2199, 2804
Panicum clandestinum 1766
Panicum coloratum 937
Panicum crus-galli *(see Echinochloa crus-galli)*

Panicum dichotomiflorum
biology
development 721
growth rate 721
life cycle 721
control
chemical control 343, 1196, 2998
acifluorfen 340
alachlor 27, 317, 336, 648, 2964
bentazone 340
butylate 315
cycloate 315
diethatyl 648
EPTC 315
fluazifop 337
haloxyfop 336-337
imazaquin 336, 340
linuron 340-341
metolachlor 336-337, 648
metribuzin 341
napropamide 648
oryzalin 648, 674
oxyfluorfen 648
pendimethalin 336, 674
prodiamine 674
sethoxydim 337
simazine 674
trifluralin 648
vernolate 315
species shift 27
ecology
allelopathy 162
competition 3638
distribution 162
drought 2813
population dynamics 2813
seeds
germination 721
temperature 1765
production 721, 1765
Panicum hirticaule 2371
Panicum maximum 2231
Panicum miliaceum 161, 316, 319, 868, 1002, 1592, 1846, 2170, 2183, 3028, 3138, 3472, 3606, 3727-3728
***Panicum miliaceum* (weed)** 343, 834, 2785
Panicum purpurascens *(see Brachiaria mutica)*
Panicum regidulum 2503
Panicum repens 2764, 2821
Panicum texanum 1002, 3054, 3472, 3504, 3508, 3521
Panicum trichoides 2371
Panicum virgatum 3385
Papaver 1841, 3522
Papaver argemone 2181
Papaver rhoeas 485, 605, 994, 1268, 2024, 2135, 2183, 3449, 3463
Papaya 1175
Paraquat
analytical methods 2299
chromatography 1926, 2597
colorimetry 1493
electrolysis 1937
gas chromatography 1939
gas liquid chromatography 2601
immunoassay 1939, 1942, 1946
liquid scintillation counting 1493, 1946
spectroscopy 3145
thin layer chromatography 1885
physiology
degradation, adsorption 1885
metabolism
amino acids 2707
carbohydrates 2707
carotenoids 2707
enzymes 2587
proteins 2707
mode of action 1432, 1481
photosynthesis 3740
translocation 3132
ultrastructure 1481
uptake 3132
residues
animal products 1946
plant residues 1946, 2597
soils
degradation 1505
fertilizers 2935
mesofauna 3772
Paraquat *cont.*
soils *cont.*
microbial degradation 3165
microorganisms
bacteria 3165
plant pathogens 3400
moisture 2936
movement 2391
photolysis 1885
runoff 2391
structure 2936
toxicology
air pollution 1939
amphibia 2295, 3391
arthropods 3772
contaminants 1493
disposal 1505
fishes 2294, 2917
guineapigs 2291
laboratory animals 1956
man 1926, 1939, 1951, 1953, 2299, 2601
mice 549
neurotoxins 2601
rats 549
sheep 1939, 1957
usage
aquatic weeds 3269
compatibility, fertilizers 2329
crops
cereals 4, 32, 318, 611, 894, 1196, 1214, 1606, 2373, 3233
culinary herbs 974
fallow 939
fibre plants 363
fodder crops 1283
forests 68, 1741, 2118, 2447, 3581
grasslands 933, 1277-1278, 1660, 2424, 3234
lawns and sports turf 400
legumes 378, 611, 1196, 1240-1242, 1606, 2080, 2386, 2391, 3226, 3509
medicinal herbs 973, 1273
ornamentals 68, 392
plantation crops 78, 611, 964, 966, 968, 970, 1100, 2110-2112, 3252, 3709
root crops 356, 1616, 2707, 3191
small fruits 679, 3570
tree fruits 404, 679, 682, 685, 965, 1714, 2109, 3248, 3577
vegetables 939, 1297, 2094
damage 400, 1273, 1606, 2424, 3509
diseases 1454
economics 78, 964, 2118, 3509
interactions 1454
minimum tillage 3233
mixtures 1273, 1277, 3592
no-tillage 318, 2049, 3577
non-crop weed control 2456, 2754
pests 3248, 3772
residual effects 2424
resistant weeds 1474
sward renovation 1653, 1660-1661, 2422, 2424
weeds 495, 1483, 2710
yields 3509
Parasitic weeds 163, 185, 187, 500-501, 503-504, 764-765, 772, 782, 1042, 1058-1061, 1079, 1394, 1406, 1446, 1690, 1776, 1782, 1838, 1859-1863, 2132-2133, 2221, 2224-2225, 2548, 2551-2553, 2717, 2729, 2832-2835, 2837-2838, 2850, 3241, 3324, 3328, 3421, 3667, 3791
Parentucellia viscosa 3667
Parietaria erecta 3597
Parkinsonia aculeata 3714, 3792
Parsley 1284
Parthenium 2245
Parthenium hysterophorus 273, 505, 745, 1531, 1535, 1757, 1836, 2492, 3112-3114, 3356
Parthenocissus inserta 3315
Paspalum 1306
Paspalum conjugatum 969, 991, 2112, 2416, 2526, 2531, 2533
Paspalum dilatatum 1283, 1660, 2743
Paspalum distichum 35, 325, 1766, 1803, 2044, 2381, 2800, 2976, 3316, 3669
Paspalum notatum 1309, 1312, 1714, 2118, 2465, 2845
Paspalum paniculatum 2533
Paspalum paspaloides 321
Paspalum scrobiculatum 325
Paspalum virgatum 2457
Paullinia cupana 973
Paulownia tomentosa 82
Pawpaws 2109
PCP
soils, mesofauna 1158
toxicology
insects 1158
soil mesofauna 1158
Peaches
weed control
chemical control
2,4-D 677
norflurazon 1715
simazine 1715
triclopyr 677
Pears
weed control
chemical control 404
fluazifop 3543
weeds, distribution 405
Peas
bioassays 2428
herbicide application
damage 2383
deformities 3135
diseases 3216
growth 532, 1597
nodulation 1597, 2051, 3216
physiology 206, 532, 1143, 2051, 3135, 3142, 3720
soils 3399
susceptibility 860
tolerance 2093, 2383, 2428
yields 2383-2384, 3216, 3495
weed control
chemical control 646, 1420, 3215
acifluorfen 3495
alachlor 3216
alloxydim 2383
asulam 2383
bentazone 38, 905, 2050, 2383, 2688, 3495
carbetamide 2684-2687
cinmethylin 1689
cyanazine 2383
dimefuron 2684-2687
dinoseb 2050, 2684, 2687-2688
dinoterb 2685, 2687
fluazifop 2383
fluchloralin 2384, 3216, 3495
flurochloridone 2684
haloxyfop 38
isoproturon 2684
linuron 2685, 3216
methabenzthiazuron 38, 2384, 2687, 3216
metoxuron 2384
metribuzin 2384
neburon 2685-2686
nitrofen 2384
pendimethalin 2685-2686, 3495
quizalofop 2685
sethoxydim 38, 2383
terbutryn 2384, 2686, 3216
trifluralin 2684
cultural control 1420
manual weed control 2384
management 1420
weeds
allelopathy 2169
competition 904, 2169
crop loss 904
parasitic weeds 187
surveys 753, 2183
Pebulate
usage
crops
plantation crops 365, 639, 1647

Pebulate *cont.*
usage *cont.*
crops *cont.*
root crops 2706
Pecans 1714-1715
Pedicularis lapponica 2224
Pedicularis palustris 2224
Pedicularis sylvatica 2224
Peganum harmala 2213, 2489
Pendimethalin
analytical methods, gas liquid chromatography 237
physiology
metabolism
chlorophyll 3221
nitrate nitrogen 3010
nutrients 3010
mode of action 1432
uptake 3010
residues, plant residues 1291
soils
mesofauna 2693
microorganisms
actinomycetes 2318
bacteria 2318
fungi 2318
toxicology 2301
usage
additives 2380
application, methods 344, 3478
crops
cereals 6, 12, 17, 24, 283, 300, 313, 589, 616, 898, 1196, 1563, 2360, 2378-2380, 2670, 2677, 2682, 2979, 3029, 3442, 3461, 3478, 3483
fibre plants 283, 2998, 3520
forests 82, 2450
lawns and sports turf 393, 396, 952, 957
legumes 283, 331, 1196, 1242, 1252, 1281, 2052-2053, 2082, 2386, 2395, 2423, 2685-2686, 2693, 2986, 3221, 3223, 3495, 3499, 3509, 3548, 3550, 3554
oil plants 283, 1270-1271, 2411, 2690, 2711, 2996
ornamentals 392
plantation crops 1272, 1647
root crops 283, 1253, 3553
small fruits 659, 663, 674, 1318, 3021
tree fruits 407, 659, 679, 685-687
vegetables 375, 646, 1291, 2086, 2088, 3553
damage 283, 303, 1270, 1318, 3483, 3509, 3548
diseases 907
drought 2082
economics 3509
incorporation 2052
nodulation 3221
selectivity 2685-2686, 3548
weeds 336, 428
wetters 283
yields 303, 1252, 1270, 1563, 2395, 2693, 3021, 3509, 3520
Pennisetum americanum 186, 503, 2352, 2520, 3481-3482
Pennisetum clandestinum 1045
Pennisetum glaucum (*see Pennisetum americanum*)
Pennisetum pedicellatum 2041
Pennisetum petiolare 2782
Pennisetum typhoides (*see Pennisetum americanum*)
Penoxalin, usage, crops, vegetables 3242
Pentachlorophenol
soils
degradation 3398
photolysis 3398
Peplis portula 388
Peptides, tetra- 1878
Peru, flora 2527
Petunia hybrida 515, 3370
Phacellanthus tubiflorus 2132-2133
Phalaris 1823
Phalaris aquatica 467
Phalaris minor 447, 1207, 2352, 2646, 3061, 3455
Phalaris paradoxa 3070, 3131
Pharbitis nil 3320
Phaseolus lunatus 1876
Phaseolus vulgaris
bibliographies 3431
bioassays 2428
herbicide application
damage 1294, 1471, 1692
physiology 3382
drift 3012
germination 3012
growth 301
maturation 3012
physiology 301, 1471, 1478, 1902, 2572, 2592
quality 3012
residual effects 1546, 2351
selectivity 2572, 3552
susceptibility 1294, 3012
tolerance 1471, 2093, 2428
varietal susceptibility 63, 3013
yields 1189, 1296, 2351, 3012-3013, 3553
weed control
chemical control 338, 1293, 2012, 2093
alachlor 1295
alloxydim 3551
atrazine 3548
benfluralin 2089-2090, 3549-3550
bentazone 2094, 3552
butralin 2090-2091, 3548, 3550
carbetamide 3548
chloramben 1295
chlorpropham 1284
chlorthal-dimethyl 3554
cinmethylin 1689
dimefuron 3548
dinitramine 1295, 3554
dinoseb 1297, 1691-1692
dinoterb 3548, 3550
diquat 2092
diuron 3554
EPTC 1295-1297, 2089-2090, 3549-3550, 3554
ethalfluralin 1471, 3548, 3554
fluazifop 1189, 3551
fomesafen 649
glufosinate 378
glyphosate 378
linuron 3554
methabenzthiazuron 3554
metolachlor 1295, 1297, 2091, 3548, 3550
monolinuron 2090-2091, 3548, 3550
neburon 2090, 3548, 3550
nitrofen 3554
oxyfluorfen 3553
paraquat 378, 1297, 2094
pendimethalin 3548, 3550, 3553-3554
propachlor 1284, 2091, 3548
propazine 1284
quizalofop 3551
sethoxydim 1189
trifluralin 1295-1297, 3554
cultural control 1293, 1297
mulching 377
economics 1293
flurochloridone 3545
management 1293
irrigation 1693
no-tillage 2814
weeds
allelopathy 1175, 2811
competition 1293, 2172, 2785, 2808
crop loss 1293
hosts of plant diseases 1864, 1876
parasitic weeds 2832
yields 2172, 2808
Phelipanche aegyptiaca 2132
Phelipanche purpurea 2132
Phelipanche ramosa 2133
Phenmedipham 350
analytical methods
chromatography 544-545
thin layer chromatography 539, 1920, 2913
physiology
metabolism, amino acids 1462
photosynthesis 229-230
residues
atmosphere 539
plant residues 1920, 2913
soils 1920, 2913, 3151
water 3151
usage
additives 47, 349
application, methods 2060
climate 47
crops
fodder crops 2060
ornamentals 388, 392
root crops 46-47, 230, 345, 349, 630-631, 911, 1612, 1624, 1626, 1632-1633, 2056, 2058, 2402-2404, 2700, 2703-2705, 3510
small fruits 1702
vegetables 1284
mixtures 349, 630, 1632-1633, 2403-2404, 2700
quality 2402
rates 630
sequences 630
tolerance 1055
wetters 349
yields 2700
Phenol, 2-nitro- 1470
Phenol, 4-nitro- 1470
Phenolics 2276
Phenols, chlorinated 2613
Phenols, chloro- 2591, 3143
Phleum pratense 164, 373, 1670, 3433
Phoradendron tomentosum 2548, 2833
Phosphine oxides, 9-aminofluoren-9-yl- 2907-2908
Phosphonate, trimethylsulphonium carboxymethylaminomethyl 67, 203, 378, 679, 1129, 1483, 1705, 2461-2462, 2760, 2768, 3030
Phosphonic acid, 2-aminoethyl- 2906
Phosphonodithioate, *O*-ethyl-*S*-phenyl ether 561
Phosphorothioate, *O,O*-diethyl-*O*-phenyl- 43, 316, 561, 2604, 2615
Photinia fraseri 652
Phragmites 183
Phragmites australis 96, 100, 153, 176, 183, 960, 1031, 1834, 2607, 2794
Phragmites communis 2750 (*see Phragmites australis*)
Phragmites karka 3071
Phthalimide, *N*-(4-chlorophenyl)-4,5,6,7-tetrahydro- 2012
Phthalimide, *N*-(4-chlorophenyl)-3,4,5,6-tetrahydro- 3719
Phthirusa pyrifolia 184
Phyllanthus niruri 2378
Phyllostachys aurea 1311
Physalis 1634
Physalis angulata 3080
Physalis heterophylla 202, 3301
Physalis subglabrata 2987
Phytolacca americana 1398, 1852
Phytolacca esculenta 1398
Phytolacca icosandra 2118
Phytotoxins 2571
Picea 84, 89, 2443
Picea abies 87, 391, 412, 1729, 2119, 3024, 3375
Picea glauca 86, 414, 2745
Picea mariana 90-91
Picea obovata 411
Picea sitchensis 1739
Picloram
analytical methods
bioassays 1149, 3768
gas chromatography 1923, 1931
formulations, pellets 94

Picloram *cont.*
physiology
degradation 1149
metabolism, alkaloids 1282
mode of action 1469
translocation 1149
residues
plant residues 1149
soils 1274, 1332
water 1948
soils
absorption 2307
adsorption 1512, 3399
degradation 1149, 3396, 3399
desorption 2307
leaching 3399
microbial activities
enzymes 3769
respiration 3769
microorganisms 3769
bacteria 563
organic matter 1149, 1512, 3396
temperature 1512
types 3396
toxicology 3394
fishes 2603
man 1952
usage
additives 1986, 2464
application
equipment 2748
methods 94-95, 1681, 2634, 2722, 2741, 2749
applications, methods 3256
crops
cereals 606, 895, 2373, 2662
forests 92, 1327, 1332, 1338, 1349, 1724-1726, 1728, 1741, 1986, 2115, 2117, 2440, 2741, 2744, 2748, 3256
grasslands 931, 1680, 2634, 3235, 3541
legumes 1673, 3541
ornamentals 1349
plantation crops 78, 972
rangelands 1282, 1681-1682, 1686, 2426
damage 1726, 3541
economics 78, 2748-2749
grasslands 2722
mixtures 1339, 1344, 1682, 2464
non-crop weed control 112, 2464, 2741
poisonous weeds 1282
residual effects 109
weeds 988
woody weeds 92, 1331, 1339, 1724-1726, 1728, 2451, 2464, 2634, 2722, 2748-2749, 2753, 3191
yields 1274
Picris echioides 1841
Pilea pumila 1798
Pimpinella saxifraga 477
Pinus 1327, 1333-1334, 1336, 1724, 1733, 2442, 2444
Pinus albicaulis 1340
Pinus banksiana 91, 3258
Pinus contorta 1488, 1861, 2834
Pinus echinata 81, 1338-1339, 1742, 2115, 2748
Pinus eldarica 3262
Pinus elliottii 81, 1727
Pinus elliottii* var. *elliottii 1735, 1741
Pinus lambertiana 3267
Pinus nigra 1328
Pinus palustris 81, 1741
Pinus ponderosa 1740, 1860, 2519, 2835, 3267
Pinus radiata 238, 981-982, 1329, 1335, 1723, 2113-2114, 3261, 3564
Pinus resinosa 91, 2449, 2744-2745, 2747, 3258
Pinus strobus 67, 93, 415, 2445, 2447, 2449
Pinus sylvestris
herbicide application
physiology 808, 3374-3375
tolerance 2449, 3243
Pinus sylvestris *cont.*
weed control
chemical control
chloroxuron 3024
2,4-D 412, 2447
fluazifop 2447
glyphosate 2447
imazapyr 2447
metolachlor 3024
paraquat 2447
prometryn 3024
sethoxydim 2447
simazine 2447
***Pinus sylvestris* (weed)** 3005
Pinus taeda 81, 694, 1326, 1330, 1339, 1341-1342, 1722, 1726, 1728, 1730-1732, 1734-1736, 1741-1742, 1819, 2115, 2448, 2743, 2748, 3257, 3263, 3265
Piper nigrum 276
Pistia stratiotes 266, 699, 1052, 2211, 2542, 2849
Pittosporum undulatum 2116, 2163
Plant growth regulators 667, 1266
Plantago 3626
Plantago lanceolata 1431, 2343, 2496, 3291, 3661
Plantago major 459, 1399, 3052, 3279, 3636, 3661
Plantago media 837
Plantago ovata 1056
Plantago uliginosa 459
Platanus occidentalis 82, 2441
Plucea dioscorides 1109
Plums 682-683, 685-687
Poa 486, 918, 958, 2011, 2685, 3449, 3544
Poa annua 24, 404
biology
composition 2798
cytology 2586
genotypes 2586
phenotypes 3362
photosynthesis 2798
physiology 2798
control
chemical control 404
alachlor 2037
atrazine 3548
benfluralin 393
bensulide 393
bromoxynil 3461
butralin 3548
carbetamide 3548
chlorotoluron 12
chloroxuron 2086
chlorthal-dimethyl 393
cyanazine 12, 3441
diflufenican 1568
dimefuron 3548
dinoterb 3548
EPTC 934, 2037
ethalfluralin 3548
ethofumesate 399, 958, 1656
fluchloralin 2423
flurochloridone 353
glyphosate 960
haloxyfop 353
ioxynil 3461
isoproturon 1568
isoxaben 3441-3442
linuron 12, 353, 2086
mecoprop 3461
methabenzthiazuron 38
metolachlor 3548
monolinuron 12, 3548
neburon 2086, 3548
oxadiazon 393
oxyfluorfen 683
pendimethalin 12, 393, 2086, 2423, 3461, 3548
prodiamine 393
prometryn 2037, 2086
propachlor 3548
quizalofop 353
trifluralin 12, 2423
herbicide application
resistance 525
tolerance 59
species shift 1675, 1677
ecology
allelopathy 1416
Poa annua *cont.*
ecology *cont.*
biotypes 525
competition 475, 1416, 1418, 2352, 3461
fertilizers 475
habitats 1835
population dynamics 1418
seasonal variation 2028
spread 1047, 1835
temperature 2798
weed associations 2489
hosts of plant diseases 12
seeds
contamination 2078
depth of burial 122
dormancy 121
germination
light 121
moisture 2028
stimulants 121
temperature 121
growth regulators 2586
populations 448
soils 448, 1677
spread 448
viability 122
weeds, seeds 3313
Poa compressa 402
Poa labillardieri 2073
Poa pratensis 158, 398, 404, 1340, 1770, 2479
herbicide application
damage 71
germination 71
sward renovation 3539
tolerance 71, 1275
weed control
chemical control 1655
benfluralin 393, 396, 952
bensulide 393, 396, 952, 3245
chlorthal-dimethyl 393, 952, 956-957, 3245
2,4-D 957, 2434
dicamba 957, 2434
dichlorprop 957
diclofop 957
fenoxaprop 396, 952, 955-957
mecoprop 2434
MSMA 956
oxadiazon 393, 396, 952
pendimethalin 393, 396, 952, 957
prodiamine 393, 396, 952
triclopyr 2434
tridiphane 396, 955-957
weeds
competition 1340, 1416
seeds 2202
***Poa pratensis* (weed)** 1365, 1701, 1835
Poa trivialis 12, 121, 475, 1656, 1675, 1677, 2687, 3549, 3551
Poaceae 2537
Podocarpus dacrydioides 975
Podocarpus spicatus 975
Podocarpus totara 975
Poisonous weeds 116, 118-120, 440-441, 763, 938, 993, 1020, 1354, 1756-1757, 1795, 2127, 2200, 2466-2468, 2769-2773, 3002, 3033-3035, 3037-3040, 3193, 3275, 3427, 3598-3599, 3601, 3687
Poland
flora 2182
herbicides
legislation 282
reviews 282
weed control, reviews 282
Polygonum
biology
morphology 1774
pollen 1774
control
chemical control 1231, 1240, 1618, 1621
alachlor 2037
atrazine 310
bentazone 919
bromofenoxim 2671
clopyralid 3444
cyanazine 2980

Polygonum *cont.*
control *cont.*
chemical control *cont.*
dicamba 310
diflufenican 3449
dinoseb 2980
EPTC 2037
isoproturon 3449
isoxaben 595
MCPA 919
metamitron 1821
methabenzthiazuron 1821
metribuzin 1821, 2407
prometryn 2037, 2980
terbuthylazine 2671
trifluralin 2097
species shift 1821
ecology, competition 605
Polygonum aviculare
control
chemical control 1268, 1420
acifluorfen 3499
alachlor 2413, 3499
amitrole 409
atrazine 2672
bentazone 3499
bromofenoxim 2672
bromoxynil 3462
chlorsulfuron 3462
cyanazine 2672, 3441
diuron 409
fenoxaprop 3499
fluazifop 3499
flurochloridone 2413
fomesafen 3499
ioxynil 3462
isoxaben 3441
linuron 2413, 3499
mecoprop 3462
metobromuron 2413, 3499
metolachlor 2413, 2672
metribuzin 3499
metsulfuron 2648, 3462
monolinuron 2413
napropamide 663
pendimethalin 3499
prometryn 2413
quizalofop 3499
simazine 409
terbuthylazine 2672
trifluralin 3499
cultural control 1420
non-crop weed control, roadsides 1365
ecology
allelopathy 1045
colonizing ability 1385
distribution 1841, 2193, 3626
fertilizers 2193
habitats 1420
seasonal variation 1420
soils 2781
spread 1420
weed associations 1420
seeds
buried seeds 2201
germination, light 1365
populations 448, 2781
soils 448
spread 448
Polygonum bungeanum 2459-2460
Polygonum convolvulus (*see Bilderdykia convolvulus*)
Polygonum cuspidatum (*see Reynoutria japonica*)
Polygonum hydropiperoides 2252
Polygonum lapathifolium 350, 934, 1219, 1419, 1791, 2057-2058, 2460, 2781, 2815, 3280, 3513
Polygonum orientale 3604
Polygonum pensylvanicum 312, 342-343, 386, 510, 662, 1196, 1227, 1761, 1798, 2202, 2460, 3066
Polygonum persicaria
biology, life cycle 2785
control
chemical control 1219, 1268, 2403, 2733
alachlor 1271
bromoxynil 11, 3443
clopyralid 3443
Polygonum persicaria *cont.*
control *cont.*
chemical control *cont.*
dicamba 3443
dichlorprop 3443
diclofop 1271
EPTC 1271
fluazifop 1271, 3546
flurochloridone 1271
fluroxypyr 11
ioxynil 11, 3443
isoxaben 1972
linuron 1271
MCPA 3443
mecoprop 3443
metazachlor 1271
metobromuron 1271
metolachlor 2672
metsulfuron 3443
oryzalin 674
oxyfluorfen 3546
pendimethalin 674, 1271
prodiamine 674
quizalofop 1271
sethoxydim 1271
simazine 674
terbuthylazine 2672
cultural control, solarization 3241
herbicide application, morphology 2569
ecology
phenology 2785
weed associations 2529
seeds, production 1010
Polygonum scabrum (*see Polygonum lapathifolium*)
Polygonum tubulosum 1379
Polypogon monspeliensis 2352
Poncirus trifoliata 1324
Poncirus trifoliata × ***Citrus paradisi*** 1324, 3120
Pontederia 2214
Pontederia cordata 1853
Pontederiaceae 483
Populus 83, 91, 410, 412, 1336, 1993, 2747
Populus balsamifera 2722
Populus deltoides 82
Populus × ***P. euramericana*** 1304
Populus tremula 3582
Populus tremuloides 89-90, 2722, 2742, 2745, 3264
Portulaca 3544
Portulaca oleracea
biology
photosynthesis 1856, 2485
physiology 1856
taxonomy 1780
control
biological control, fungi 2245
chemical control 1227
alachlor 39, 648
bentazone 39, 2094
chloramben 386
chlorpropham 386
chlorthal-dimethyl 662
diethatyl 648
diphenamid 662
fomesafen 649
isoproturon 2362
linuron 39
metolachlor 648
metoxuron 2362
napropamide 648, 662
oryzalin 648
oxyfluorfen 648
paraquat 2094
prodiamine 2107
sethoxydim 39
terbutryn 2362
thiobencarb 386
trifluralin 39, 648
cultural control
flaming 39
hoeing 39
management
rotations 3199
shading 358
ecology
distribution 1780, 3231
origin 1780
Portulaca oleracea *cont.*
hosts of plant diseases 2228
hosts of plant pests 2241
seeds, germination, stimulants 1767
utilization 846
Potamogeton 175, 497, 3651
Potamogeton crispus 99, 427, 758, 1833
Potamogeton distinctus 2905
Potamogeton illinoensis 3631
Potamogeton lucens 160, 3053
Potamogeton nodosus 99, 104, 421, 1145, 1419
Potamogeton pectinatus 99, 104, 180-181, 419, 421, 450, 487, 698, 725, 766-770, 1145, 1831-1833, 2453, 2784, 3585
Potamogeton perfoliatus 421, 806, 2453
Potamogeton pusillus 421
Potatoes
herbicide application
breeding for herbicide resistance 1890, 3734
damage 355, 883
diseases 355
irrigation 633
morphology 355
nutritive value 2406
physiology 916, 2406, 2707, 2887, 2900-2901, 3738
proteins 2707, 2900-2901
quality 634, 2707
residual effects 356, 1585, 2367
residues 637, 2597, 2910, 3149
sugars 2707
susceptibility 357, 860
tolerance 357, 916
varietal susceptibility 357, 916, 2067
yields 354-356, 1189, 2063, 2065, 3553
weed control
chemical control 912-913, 1635, 2065
acifluorfen 1262
aclonifen 355
alachlor 2405
alloxydim 48, 2061
ametryn 636
bentazone 48-49, 353, 1262
chlorbromuron 2067
cinmethylin 1689
cloproxydim 632, 1262
cycloate 633
2,4-D 360, 914-915, 2062, 3195
dalapon 914-915
dicamba 360, 3195
dinoterb 49
EPTC 632-633
fluazifop 48, 635, 1189, 1259, 1745, 2061, 2407, 3512
flurochloridone 48-49, 353-355, 1636
fomesafen 632
glyphosate 360, 915, 3512
haloxyfop 353, 632
linuron 49, 353, 637, 914, 2066-2067, 2407, 2804, 3195
MCPA 2062, 3195
metobromuron 637, 2064, 2067
metolachlor 633, 2064, 2407, 2804, 3513
metribuzin 48-49, 353, 357, 586, 632-633, 637, 914, 1262-1263, 2063, 2067, 2407, 2804, 3513-3514
monolinuron 353, 914, 2061
oxadiazon 2405
oxyfluorfen 3553
pendimethalin 3553
prometryn 636, 914-915, 1260, 2062, 3195
propachlor 636
quizalofop 353, 632, 865, 1263
sethoxydim 1189, 2061
simazine 636, 914-915, 3195
TCA 914-915, 3512
terbuthylazine 355
terbutryn 355, 2067
thiobencarb 2067
trietazine 49
trifluralin 637

Potatoes *cont.*
weed control *cont.*
cultural control 635, 913, 1634, 2065
cultivation 352, 2066, 2336
discing 2336
harrowing 636, 2336
hoeing 636
manual weed control 2064, 2405
economics 912, 1170
integrated control 359, 914
management 2804
ground cover 351
rotations 3644
shading 358
recommendations 870, 913
weeds
allelopathy 358
competition 361, 1261, 1805, 2804, 3644
distribution 1423
harvest losses 2066
hosts of plant pests 2235
populations 2818
seeds 3047, 3644
surveys 1805, 2183, 2209, 2644
yields 635, 2066
Potatoes (weed) 658
Potentilla anserina 404
Potentilla fruticosa 3244
Potentilla reptans 2437
Pretilachlor
usage
crops, cereals 2045
damage 2045
safeners 2045
Primula 1446
Proboscidea louisianica 1638, 2495, 2806
Prodiamine
analytical methods, gas liquid chromatography 237
soils, persistence 2012
usage
crops
cereals 2012
lawns and sports turf 393, 396-397, 952
orchards 678
ornamentals 389
small fruits 674, 678, 2107
tree fruits 2107
damage 952
persistence 678
Profluralin
analytical methods, gas liquid chromatography 237
usage
application, methods 925
crops
fibre plants 925
forests 3025
legumes 2082
root crops 1253
damage 3025
Prometon
chemistry, structure activity relationships 1124
physiology, metabolism, enzymes 1124
Prometryn
analytical methods, immunoassay 1943, 2289
chemistry, structure activity relationships 1124
physiology
cytology 2051
chloroplasts 212
metabolism
amino acids 2707
carbohydrates 2707, 3142
carotenoids 2707
enzymes 1124, 3376
nutrients 3142
proteins 2707
vitamins 2406
nitrogen fixation 2051
residues
plant residues 915
soils 915
soils
degradation 245, 915
Prometryn *cont.*
soils *cont.*
microorganisms
bacteria 245
fungi 245
types 245
usage
application, methods 2095
crops
cereals 26, 886, 1213, 1590, 3195
fodder crops 1588, 2037
forests 976, 3024
legumes 1252, 1598, 1601, 2689, 2980, 3195, 3509
oil plants 1014, 1267, 1270, 1643, 2413, 3527, 3530
plantation crops 689
root crops 50, 636, 914, 1260, 2062, 2707, 3195
vegetables 915, 1284, 1288, 2086, 2095, 2430, 3242, 3544
damage 689, 1270, 1288, 2980, 3509
economics 3509
nodulation 2691
tolerance 1055
weeds 2463
yields 26, 1252, 1267, 1270, 2062, 2689, 3509
Pronamide, usage, damage 372
Propachlor
physiology
metabolism
nitrate nitrogen 3010
nutrients 3010
uptake 3010
residues
plant residues 941
soils 941, 1290
soils
degradation 241
microbial degradation 241
usage
application, methods 831
crops
cereals 614, 886
fodder crops 2997
legumes 2091, 3548
oil plants 3230
ornamentals 388
root crops 636
small fruits 664
vegetables 375-376, 940-941, 1284, 1289-1290, 3547
damage 376, 3548
quality 2997
safeners 614
selectivity 3548
weeds 1353
yields 376, 2997, 3230
Propane, dichloro- 669, 3157
Propanil
analytical methods, gas chromatography 1142
physiology
cytology
binding site 3380
chloroplasts 3380
metabolism
amino acids 2707
ammonia 220
carbohydrates 2707
carotenoids 2707
enzymes 3737
proteins 2707
photosynthesis 3379
respiration 3379
residues, water 1961
soils
microbial degradation 1961, 2315
microorganisms, fungi 2315
photolysis 2927
usage
climate 34
compatibility, insecticides 326
crops
cereals 33-34, 36-37, 326, 901, 1225-1226, 1593-1594,
Propanil *cont.*
usage *cont.*
crops *cont.*
cereals *cont.*
2020, 2680-2681, 2683, 3483
forests 410
root crops 2707
damage 2408, 3483, 3731
diseases 2567
yields 2683
Propazine
analytical methods
chromatography 1929
gas liquid chromatography 1933
immunoassay 2289
physiology, metabolism, nutrients 408
residues
plant products 297
plant residues 1929
soils 1929
water 1929
soils, water composition and quality 408
usage
crops
cereals 1592
fibre plants 1638
forests 2113
vegetables 1284
safeners 2377
Propene, dichloro- 3157
Propham
physiology, photosynthesis 229
soils, microbial activities, respiration 829
usage
crops, root crops 630
mixtures 630
rates 630
sequences 630
Propionanilide, 2-(2-naphthoxy)- 615, 819
Propionate, ethyl-2-[4-(6-chloro-2-quinoxalinyloxy)phenoxy]- 682, 1644
Propionic acid, 2-(2-naphthoxy)- 819
Propyzamide
analytical methods, bioassays 281
physiology
genetics, mitosis 3733
germination 3668
residues
groundwater 3159
plant residues 1949
soils 1949, 2304
soils
adsorption 2611
degradation 2304, 2611, 3158
fertility 680
moisture 281
movement 2611
persistence 281, 2304, 2611
structure 3159
temperature 281
types 2304
usage
crops
cereals 3029
fallow 1555
oil plants 3230
ornamentals 392, 1301, 3020
small fruits 2735
tree fruits 680, 685-687
vegetables 383-385, 950, 3547
mixtures 1555
non-crop weed control 2765
parasitic weeds 2735, 3668
rescue crops 281
weeds 712
yields 3230
Prosopis 2724, 2859, 3679, 3714
Prosopis alba 3255
Prosopis farcta 1391
Prosopis glandulosa
biology
growth rate 135
roots 135
shoots 135
control
chemical control 3780
cultural control, burning 62

***Prosopis glandulosa* cont.**
control *cont.*
herbicide application, physiology 1752
ecology
salinity 132
soils 135
water stress 132
hosts of plant pests 782
Prosopis juliflora 3240
Prosopis juliflora* var. *glandulosa 1681 (*see Prosopis glandulosa)*
Prosopis pallida 3336
Prosulfalin
residues, soils 394
usage, crops, lawns and sports turf 394
Proximpham
usage
crops, root crops 630
mixtures 630
rates 630
sequences 630
Prunella vulgaris 1768, 3276
Prunus 2747, 2851
Prunus amygdalus 1319, 1322-1323, 1712-1713
Prunus armeniaca 1319
Prunus avium 772
Prunus jamasakura 56
Prunus pensylvanica 89-91, 402, 3695
Prunus serotina 94, 112, 2451, 3315
Prunus spicatum 90
Prunus spinosa 2753
Psammophilliella muralis 2529
Pseudophegopteris pyrrorhachis 2837
Pseudoraphis spinescens 2530
Pseudotsuga menziesii 67, 87, 692, 1336, 1488, 1684, 1737-1739, 3267, 3306
Pteridium aquilinum 2837
biology
anatomy 763, 2215
composition 2771, 3291
embryonic development 3277
genetics 2824
rhizomes 117
control 1426
biological control
arachnids 200
fungi 199
insects 200
chemical control
amitrole 413, 3541
asulam 60, 250, 1346, 2075-2076, 2760
chlorsulfuron 60
dalapon 2076
dicamba 87
fosamine 3005
glyphosate 250, 1346, 2076, 2760
hexazinone 402
methabenzthiazuron 60
metsulfuron 60
picloram 3541
2,4,5-T 3004
triclopyr 2076
cultural control
burning 2179
mowing 2075
economics 79
herbicide application, physiology 2883
management 2443
drainage 2179
fertilizers 2179
grazing 2179
species shift 2179
ecology
allelopathy 2760, 3717
colonizing ability 2534
competition 2179
distribution 3002
spread 760, 2534, 3002
poisonous weeds 117, 760, 2126, 2771, 3002
utilization 1426, 3182
Pteridium aquilinum* var. *caudatum 200
Pteridium aquilinum* var. *esculentum 58, 247
Pteridophyta 1145, 1718
Ptychosperma elegans 2101
Puccinellia distans 2415
Pueraria lobata 1984, 2743
Pueraria phaseoloides 1281
Pumpkins 646
Pyridate
analytical methods
chromatography 2598
fluorescence analysis 2598
residues, plant residues 2598
usage
crops
cereals 21, 300, 1225, 3470
fodder crops 2969
legumes 2969
tolerance 1055
yields 21, 2969
Pyridazinone, 4-chloro-5-(dimethylamino)-2-(α,α,α-trifluoro-*m*-tolyl)-3(2H)- 804
Pyridazinone, 4-chloro-5-(dimethylamino)-2-phenyl-3(2H)- 804
Pyridazinone, 4-chloro-5-(methylamino)-2-(α,α,α-trifluoro-*m*-tolyl)-3(2H)- 804
Pyridine-*N*-oxide, 2-[1-(2,5-dimethylphenyl) ethylsulphonyl]- 3576
Pyrrolidin-2-one, 3-chloro-4-(chloromethyl-1-(3-trifluoromethyl)phenyl)- 53, 2061, 2611
Pyrus melanocarpa 402
Quercus 714, 1330, 1338, 2449-2450, 3679
Quercus alba 1728, 2749
Quercus dumosa 1683
Quercus falcata 1728, 2749
Quercus gambelii 2835
Quercus havardii 935-936
Quercus laevis 92
Quercus nigra 2749
Quercus rubra 93, 112, 2451
Quercus serrata 56
Quercus stellata 1728
Quercus velutina 980
Quinclorac
formulations
granules 1595
wettable powders 1595
usage
antagonism 1595
crops
cereals 1224, 1595
legumes 1246
Quinone, benzo- 1080
Quinones, naphtho- 791
Quizalofop
analytical methods, bioassays 3758
chemistry
structure 809, 1473
structure activity relationships 1482, 3435
physiology
absorption 3124-3125
cytology, cell membranes 1473
degradation 1886
metabolism 3124
translocation 246, 1473, 3124-3125, 3435
water relations 3125
soils
leaching 3758
persistence 2010, 3758
usage
additives 3271
antagonism 3435
climate 246, 3030
crops
cereals 286
fibre plants 865, 3519, 3521
lawns and sports turf 1310
legumes 332, 865, 2055, 2685, 3497, 3499, 3521, 3551
oil plants 865, 1271, 1643, 3231
plantation crops 969
root crops 353, 632, 865, 1263
vegetables 646, 1687
damage 1195, 1687, 3435
non-crop weed control 2768
selectivity 2010, 2685
weeds 429
yields 3519
R-30228 2377
Radishes 206, 301, 1046, 1185, 1478, 1940, 1949, 3300
Ranunculus 174, 918, 1241, 1677, 3042, 3065
Ranunculus acris 1362, 1828, 2081, 2154
Ranunculus borealis 2154
Ranunculus bulbosus 3042
Ranunculus calcareus 704
Ranunculus flabellaris 2486
Ranunculus fluitans 422
Ranunculus peltatus 97, 726
Ranunculus polyanthemos 2154
Ranunculus repens 404, 1649, 1656, 2154, 3042, 3634
ecology, distribution 1828
Ranunculus reptans 2154
Ranunculus sceleratus 1649, 3042, 3321
Ranunculus trichophyllus 726
Rape
weed control
cultural control, ploughing 2028
minimum tillage 2028
Raphanus raphanistrum 485
biology 1748
cytology 1011
fertilization 1011
genetics 1011
control
biological control, insects 1084
chemical control 1748
bentazone 919, 2072
2,4-D 2072
dicamba 2072
MCPA 919
prometryn 1014
simazine 2510
triasulfuron 1573
trifluralin 1014, 1300
cultural control 1748
ecology
competition 1748, 2510
distribution 1748
spread 1748
hosts of plant pests 1084
seeds
contamination 1748
depth of burial 1012
dormancy 1012
germination 1748
production 1012, 1084, 1748
size 1011, 1769
Raspberries 401, 669, 683, 3543
Ratibida pinnata 2479
Recommendations
crops
cereals 592, 868, 873, 886, 1587
fibre plants 921
forests 1721, 2444
legumes 1248
oil plants 3529
root crops 1255, 2056
vegetables 1298, 2726
weed control 1
Argentina 2963
Australia 1550
USSR 862, 869, 1014
woody weeds 1344
Reports
Australia 273, 3418
Queensland 3190
Belgium 274
Brazil 1176
Canada 1998
Alberta 3793
France 853
Indonesia 1537, 2952
Malaysia 2950
Syria 2385
Taiwan 3191
UK 275, 571, 574
USA 2951
Louisiana 1536
Reseda lutea 354, 3530, 3646
Reviews
aquatic weeds 424, 3415
ecology 169
biological control 1093-1094, 2852
herbivorous fish 3584
cassava, weed control 917
Cuscuta 2838

Reviews *cont.*
Cyperus esculentus, crop losses 2166
Cyperus rotundus, crop losses 2166
2,4-D, metabolism 225
Elymus repens 3281
Equisetum arvense 706, 716
glyphosate, physiology 2903
herbicides
damage 1184
insects 1157
product development 3419
safeners 1183
selectivity 797, 3722
soil mesofauna 1157
soil microflora 1154
varietal response 863
integrated control 2852
Italy, weed control 1544
ornamentals, weed control 3560
Orobanche 1078
Parthenium hysterophorus 1757
Raphanus raphanistrum 1748
Senecio jacobaea 2778
tree fruits, weed control 3574
weed control
education 3409
lawns and sports turf 1305
small fruits 1316
tree fruits 1316
Reynoutria japonica 3183, 3295
Rhinanthus angustifolius 2081
Rhododendron 391
Rhododendron catawbiense 3019
Rhododendron ponticum 2179
Rhododendron simsii 388
Rhus 1683
Rhus glabra 3583
Rhus radicans 2767
Rhynchosia minima 1447
Riccia fluitans 426
Ricciocarpus nutans 426
Rice
herbicide application
breeding for herbicide resistance 3735
climate 1965
damage 326, 548, 2045, 2892, 3357, 3487, 3489, 3731
germination 3357, 3489
growth 1473, 1482
interactions 326, 3213
irrigation 3489
microorganisms 2322
nematodes 3773
no-tillage 2049
nutrient uptake 3716
physiology 535, 615, 1473, 2892, 3214, 3358, 3378-3380, 3716, 3737
quality, milling quality 2977
residual effects 548, 2016, 2054, 2281
residues 3386
safeners 3214
selectivity 2646, 3378
soil mesofauna 3402
soils 819, 3770
sowing rates 903
spray retention 2328
sugars 3357
susceptibility 283, 1473
tolerance 3358, 3489
vaporization 2311
varietal susceptibility 2977
volatilization 3397
wetters 2328
yields 326, 901, 1224, 1594, 1596, 2677-2678, 2683, 2977, 3485, 3489
weed control
biological control 31, 578
mycoherbicides 778, 780-781
chemical control 276, 1223, 2043-2044, 2355, 2905, 2978, 3212
alachlor 897
amidochlor 3490, 3492
asulam 35
bensulfuron 1596
bensulide 897
bentazone 320-321, 1225-1226, 1593, 2378, 2678, 3483
Rice *cont.*
weed control *cont.*
chemical control *cont.*
benthiocarb 898, 1593
bifenox 3483
butachlor 321-322, 324-325, 616, 898, 902, 1561, 2047, 2379-2380, 2679, 2682-2683, 2976, 3357, 3483
chlorotoluron 2976
2,4-D 37, 320-321, 616, 901, 2047, 2379, 2677, 2681, 2683, 3483
dalapon 35, 1593
dichlorprop 1225
EPTC 32
fenoxaprop 3488-3489
fluchloralin 2379, 2683
flurenol 1225
glyphosate 32, 3485
linuron 32
MCPA 321, 617, 1225-1226, 1593
mecoprop 1225
mefluidide 2382, 3490-3491
methabenzthiazuron 2976
metolachlor 897
molinate 32, 321, 899, 901-902, 1225-1226, 1593, 1596, 2382, 2678, 2682, 3483, 3492
nitrofen 322, 2979
oxadiazon 36, 325, 898, 901, 903, 1225, 2047, 2378, 2380, 2680, 3483
oxyfluorfen 32, 321
paraquat 32
pendimethalin 321, 616, 898, 2378-2380, 2677, 2682, 2979, 3483
propanil 33-34, 36-37, 901, 903, 1225-1226, 1593-1594, 2680-2681, 2683, 3483-3484
pyridate 1225
quinclorac 1595
2,4,5-T 903
TCA 1593
thiobencarb 33, 36-37, 321-322, 324-325, 616, 902, 1225, 2047, 2378, 2380, 2677, 2976, 2979, 3483-3484
tiocarbazil 1225
triclopyr 1593
cultural control 31, 276, 320, 325, 2978
cultivation 3484
direct sowing 2381
hoeing 898, 1561, 3055, 3484
manual weed control 324, 616, 898, 2047, 2378-2379, 2680-2683, 2979, 3486
economics 1170, 2378
energy requirements 2027
integrated control 325, 578, 616, 898, 900, 1223, 2047, 2679, 2683
management 31, 325, 2800
cover crops 2047
drainage 899, 2975
fertilizers 3486
flooding 324, 899, 2046, 3488
irrigation 2046
recommendations 31, 868, 1225
reviews 31
weeds 3487
competition 321, 323, 1409-1410, 1417, 1812, 2173, 2352, 2800, 2978, 3055, 3639-3640
crop losses 2352
distribution 484, 578, 1225, 2526, 3316
economics 3640
flora 139, 483
harvesting losses 3641
hosts of plant pests 1087, 1448, 1450, 2231, 2559, 2846, 3341, 3343
plant pests 3673
seeds 129, 484, 1825
soils 2507
Rice *cont.*
weeds *cont.*
surveys 1051, 2530-2531
yields 2173, 2800, 3055, 3486, 3639-3640
Rice (weed) 32, 321, 899, 901, 1225, 1593, 1789, 1830, 2382, 3485, 3490-3492, 3521, 3639-3641
Richardia scabra 343, 1695, 2371
Robinia pseudoacacia 80, 82, 3025, 3315
Romania
herbicides
legislation 3783-3784
recommendations 3784
Rorippa amphibia 2155
Rorippa anceps 2155
Rorippa austriaca 2155
Rorippa islandica 3296
Rorippa palustris 2155
Rorippa sylvestris 2155
Rosa 392
Rosa arkansana 2743
Rosa multiflora 109, 1117, 3268
Rosa rubiginosa 1276
Rosa woodsii 2722
Rottboellia 1634
Rottboellia cochinchinensis 2245, 2646
Rottboellia exaltata
control
biological control, fungi 3686
chemical control 37, 3250
acifluorfen 1233
fluazifop 1233
quizalofop 3521
herbicide application
physiology 3126-3127
resistance 74
ecology
competition 622
distribution 3064
hosts of plant pests 2231
Rubber 964, 972, 1100, 1470, 1718, 2111-2112
Rubus 91, 1166, 1340, 2767, 2851
Rubus allegheniensis 2178
Rubus caesius 2753, 2815
Rubus fruticosus 3685
Rubus idaeus 86, 90
Rubus laciniatus 1684, 1738
Rubus procerus 1684, 1738
Rubus rubiginosa 2862
Rubus spectabilis 1684, 1738-1739
Rubus strigosus 2747
Rubus trivialis 1705
Rumex 724, 853, 1652, 2144, 2232, 3042, 3236, 3537
Rumex acetosa 1828, 3042
Rumex acetosella 158, 1340, 1367, 1775, 1830, 2201, 2437, 3042, 3636
Rumex alpinus* × *R. obtusifolius 729
Rumex confertus 2543
Rumex crispus 54, 201, 1102, 1240, 1650, 1709, 1877, 2465, 2558, 3686, 3693
Rumex crispus* × *R. longifolius 729
Rumex japonicus 2425
Rumex longifolius* × *R. obtusifolius 729
Rumex obtusifolius 54, 404, 611, 729, 1102, 1649-1650, 1657-1658, 1676-1677, 1877, 2534, 2774, 3693
Rumex pulcher 3715
Ruppia 180
Rye
bioassays 161
herbicide application
breeding for herbicide resistance 1580
cold resistance 2026
damage 1579, 3433
morphology 306
residual effects 1588
selectivity 2648
varietal susceptibility 13, 15, 306
yields 13, 306, 2037, 3447
weed control
chemical control 288
barban 1000
chlorotoluron 1554
2,4-D 26, 1035
dicamba 1035
dichlorprop 3447
diclofop 1000, 3453

Rye *cont.*
weed control *cont.*
chemical control *cont.*
diflufenican 1568
dinoseb 1577
isoproturon 1568, 1577
isoxaben 1554
linuron 3453
mecoprop 1577, 3447
methabenzthiazuron 2032
metsulfuron 2648
nitrofen 26
prometryn 26
simazine 26
tri-allate 1000
cultural control 1035
economics 1170
integrated control 2649
management
cropping systems 1000
fallow systems 1000
minimum tillage 3198
weeds
allelopathy 161, 204, 367
competition 361, 469, 737, 1035
contamination 737
crop losses 737
distribution 2529
seeds 1000, 3048
surveys 2183, 2187
yields 737, 1035
Rye (weed) 1572, 2085
Rytidosperma 1283
Safflower 2610, 3095
Sagittaria 325, 1847
Sagittaria guyanensis 1838
Sagittaria pygmaea 615, 2905, 3358, 3377
Sagittaria sagittifolia 2143, 2156
Sagittaria trifolia 2905
Salix 91, 2722, 2851
Salix caroliniana 2252
Salix fragilis 3317
Salix matsuda* × *S. alba 1304
Salix purpurea 1304
Salsola 2162
Salsola collina 167
Salsola iberica 1033, 1592, 2652
Salsola kali 167, 455, 844, 1770, 2489, 2521
Salsola pestifer 2199
Salvia 1023
Salvia leucophylla 1108
Salvia mellifera 1683
Salvia nemorosa 1384
Salvia officinalis 2100
Salvia reflexa 445, 465, 467, 1045, 2495
Salvia syriaca 3307
Salvinia 2454, 3418
Salvinia molesta
control, biological control, insects 511, 1103, 2873, 3701-3703
ecology
distribution 179
spread 2538
Salvinia natans 2164, 3297
Salvinia nymphellula 133
Salvinia rotundifolia 2799
Sambucus pubens 91
Sambucus racemosa 1684
Sanguisorba minor 2723
Sarcobatus vermiculatus 148
Sarothamnus scoparius (*see Cytisus scoparius)*
Sasa nipponica 56
Sassafras albidum 112, 2451
Satsumas 2108
SC 1084 3519
Schizachyrium scoparium 670, 3237
Schoenoplectus corymbosus 2173
Scirpus 325, 1593
Scirpus cernuus 1400
Scirpus juncoides 2043, 2279, 3358
Scirpus maritimus 320-321, 1226, 2044
Scirpus mucronatus 617, 2800, 3486
Scirpus supinus 1051
Scleranthus 1821
Scleranthus annuus 1156, 2529, 2781
Scleria 972
Scleria pterota 2112
Scoparia dulcis 962
Scorzonera 385, 950
Scurrula gracilifolia 764
Scurrula parasitica 764
Sedum tibeticum 846
Senecio 391, 409, 512, 1792, 2086
Senecio alpinus 512
Senecio cineraria 512
Senecio jacobaea
biology 2778
physiology 3318
control
biological control
fungi 512, 3681
insects 1458, 2778, 2874, 3087, 3111, 3116
morphology 512
chemical control, 2,4-D 1279-1280
management
fertilizers 1280
grazing 2778
ecology
distribution 1425
ecotypes 512
habitats 3318
light 3318
poisonous weeds 2778
seeds
depth of burial 1362
germination 1362
viability 1362
Senecio madagascariensis 1795
Senecio vulgaris
biology, physiology 2545
control
biological control
fungi 512, 2869
morphology 512
chemical control 646, 686, 2740
diflufenican 3449
diuron 672
imazapyr 1730
isoproturon 3449
napropamide 672
norflurazon 1668
oryzalin 672, 674
oxyfluorfen 683
pendimethalin 674
prodiamine 674
simazine 672, 674
sulfometuron 1730
cultural control
cultivation 2740
discing 2740
ploughing 2740
herbicide application, resistance 1432
ecology, ecotypes 512
plant diseases 1865
Sesame 2620, 2995, 3717
Sesamum alatum 1401
Sesbania 1793
Sesbania bispinosa 2780, 2822
Sesbania exaltata 338, 1228, 1247, 3686
Sesbania punicea 2780, 3117
Setaria
biology
evolution 2793
genotypes 2793
taxonomy 2793
control
chemical control 343, 2984-2986, 3470
acifluorfen 1603, 2734
atrazine 885, 2670, 3211
Setaria *cont.*
control *cont.*
chemical control *cont.*
bentazone 1603
bifenox 2667
bromoxynil 1560, 2670, 2966
butralin 672
chloramben 1603, 2988
2,4-D 22
diclofop 1560, 2966
diuron 672
EPTC 2670
ethalfluralin 918
fluazifop 918, 2393
fomesafen 1603, 2393
glyphosate 2734
haloxyfop 918, 2393
hexazinone 2734
imazaquin 2988
linuron 341, 2988
MCPA 1560, 2966
metolachlor 918, 2670
metribuzin 341, 1603, 2734, 2988
monolinuron 918
napropamide 672
oryzalin 672
oxadiazon 918
oxyfluorfen 2734, 2988
pendimethalin 2670
quizalofop 332
sethoxydim 1511, 2734
simazine 672
terbacil 2734
trifluralin 1603
minimum tillage 22
no-tillage 2986
species shift 2670
plant pests 2807
Setaria faberi
biology
development 146
evolution 2792
identification 2792, 3189
water relations 146
control 2792
chemical control
acifluorfen 339-340, 2387
alachlor 313
atrazine 312-313
bentazone 339-340, 2387
cyanazine 312-313
fenoxaprop 373
fluazifop 373, 3587
haloxyfop 2387
imazaquin 340, 1232
linuron 339-340
metolachlor 313
metribuzin 339, 2387
pendimethalin 313
simazine 313
tridiphane 312
herbicide application, physiology 1113, 1127, 3138, 3393, 3587
no-tillage 1358
organization of work 3417
ecology
colonizing ability 2202
competition 2509, 2792, 3244
spread 2202
water stress 2472
herbicide application
growth stages 224
physiology 1887
hosts of plant pests 2842
seeds
depth of burial 1356
dormancy 1003
germination 2472
moisture 1003, 1356
temperature 1358
water stress 1003
production 2472
soils 1356
Setaria geniculata 724, 2371
Setaria glauca (*see Setaria pumila)*
Setaria italica 1096, 1195, 1601, 1873, 2793, 3134
Setaria lutescens 1468
(*see Setaria pumila)*

Setaria megaphylla 2526
Setaria poiretiana 1004, 1039
Setaria pumila
biology
flowering 2536
life cycle 754, 2536, 2785
control
chemical control 2419, 2733
alachlor 336
amitrole 409
atrazine 2036
bentazone 2072
bromoxynil 2031
chlorazifop 1670
chlorsulfuron 2031
cloproxydim 429
cycloxydim 429
2,4-D 2031, 2036, 2072
dicamba 2031, 2072
diuron 409
ethiolate 891
fenoxaprop 429, 1670
fluazifop 429, 3543
haloxyfop 336
imazaquin 336
MCPA 2031
metolachlor 336
pendimethalin 336
prodiamine 678
quizalofop 429
sethoxydim 429, 1669
simazine 409
cultural control, solarization 3026
ecology
climate 1049
competition 2536
distribution 2194, 2815
habitats 1049
phenology 2785
weed associations 2183
hosts of plant diseases 2567
hosts of plant pests 2238-2239
seeds
germination 754, 2536
soils 3026
Setaria verticillata 1391
Setaria viridis
biology
breeding 3362
phenotypes 3362
physiology 2494
control
chemical control 646, 1633
alachlor 2921
atrazine 2036, 2040, 2105
bentazone 2072, 2105
bifenox 3530
bromoxynil 2031
butylate 2040, 3530
chlorbromuron 3530
chlorsulfuron 2031
cinmethylin 2921
cloproxydim 632
cycloate 633
2,4-D 881, 2020, 2031, 2036, 2072
dicamba 2020, 2031, 2072
diclofop 881
EPTC 633, 2040
fenuron 3530
glyphosate 2105
haloxyfop 632, 3530
MCPA 2020, 2031
metolachlor 633, 2040, 2921
metribuzin 632-633
molinate 2020
prometryn 3530
propanil 2020
quizalofop 632
simazine 2105
terbumeton 2105
terbuthylazine 2105
terbutryn 2040
trifluralin 2921
cultural control, cultivation 2020
herbicide application
physiology 3134
resistance 3134
management 2804
species shift 881
Setaria viridis *cont.*
ecology
climate 1049
colonizing ability 1385
competition 741, 2175, 2804
distribution 2196, 2199, 2437
habitats 1049
solar radiation 2639
water stress 2494
hosts of plant pests 3076
Sethoxydim
analytical methods, liquid chromatography 537
chemistry
development 2280
structure-activity relationships 2280
synthesis 2280
physiology
absorption 434, 519, 1468, 2572, 3124-3125, 3727
adsorption 517
degradation 2572
germination 1468
metabolism 1605, 3124
enzymes 2572
mode of action 1468
respiration 2594
translocation 246, 434, 517, 519, 1468, 2572, 3124-3125
water relations 3125
properties 2280
residues, soils 875
soils
decomposition 537
degradation 1153
microorganisms
actinomycetes 1153
bacteria 1153
fungi 1153
persistence 875, 1153, 1468
respiration 1153
toxicology 2280
insects 551
usage
additives 431-433, 517, 519, 665, 1602, 3271-3272, 3524, 3588-3589
adjuvants 59
application, methods 254
climate 246, 431-432, 3030, 3589
crops
cereals 53, 286, 875, 3473
fibre plants 363, 587, 2998, 3517, 3519-3520
fodder crops 642
forests 1337, 2447, 2450
grasslands 59, 3234
lawns and sports turf 1310, 1312
legumes 38-39, 327, 331, 337, 620, 910, 1189, 1235, 1247, 1511, 1598, 1601-1602, 1605, 1669, 2053, 2383, 2694, 2699, 3503
oil plants 1270-1271, 1643-1644
ornamentals 66, 389
plantation crops 969, 1272, 1646
root crops 587, 1189, 2061, 2401-2402, 2594
small fruits 587, 659, 670-671, 679, 1702, 1707, 2734
tree fruits 587, 659, 682
vegetables 376, 385, 950, 1687, 1695, 2085, 2429
damage 376, 380, 671, 1195, 1270, 1605, 1646, 1687, 2085, 2383, 3473
mixtures 2699
quality 2402
residual effects 875, 2694
sward renovation 1661
temperature 431-432
weeds 429
wetters 59
yields 376, 380, 671, 1270, 1646, 1695, 2694, 3519-3520
Sherardia arvensis 477
Shorea 3266
Sicyos angulatus 333
Sida 724, 740, 2245
Sida acuta 1836
Sida cordifolia 3630
Sida glaziovii 2041, 2094
Sida rhombifolia 620, 3717
Sida santaremnensis 3630
Sida spinosa 1827
control
biological control, fungi 2839, 3686
chemical control 343, 1231, 1581, 3507
acifluorfen 2839
alachlor 3777
norflurazon 3777
oxadiazon 903
propanil 903
2,4,5-T 903
integrated control 2839
Sida viarum 3630
Siduron
usage
crops
grasslands 937
lawns and sports turf 656
Silene alba 2082
Silene dichotoma 2488
Silene dioica 477, 2207
Silene gallica 724
Silene pratensis 2437
Silybum marianum 1007, 1673, 2743, 3092, 3115
Simazine
analytical methods
bioassays 816, 2914
chromatography 1929
gas chromatography 2911
gas liquid chromatography 1933
immunoassay 2289
mass spectrometry 2911
chemistry, structure activity relationships 1124
physiology
metabolism
ammonia 220
carotenoids 3383
enzymes 1124, 3376
nutrients 408
photosynthesis 2914
residues
atmosphere 1947
groundwater 3159, 3752
plant residues 877, 915, 1487, 1929
soils 372, 816, 915, 1290, 1487, 1929
water 1929, 2290, 2911
soils
adsorption 242, 2306
degradation 308, 827, 915, 1317, 2309, 3396
fertility 680
humic acids 242
leaching 961
microbial activities 1320
moisture 827, 2309
movement 242
mulching 961
organic matter 2306, 3396
persistence 1317, 2009, 2012
runoff 2911, 3764
structure 3159
temperature 827, 2309
types 3396
water composition and quality 408
toxicology
contaminants 2290
disposal 552
laboratory animals 308
usage
additives 2764
approval schemes 3177
climate 38
compatibility
fertilizers 2738
fungicides 2971
growth regulators 668
insecticides 2971

Simazine *cont.*
usage *cont.*
crops
cereals 26, 308, 313, 877, 886, 1213, 2042, 2045, 2676, 2971, 3195, 3439, 3465
culinary herbs 3016
fodder crops 1283, 1582, 1599, 3465
forests 82, 411, 1337, 1741, 2447, 2449-2450, 3264, 3581
grasslands 3539
lawns and sports turf 656, 1314, 1701
legumes 38, 2080, 2510, 3195
medicinal herbs 3254
ornamentals 69, 388, 392, 652, 951, 3019-3020
plantation crops 689, 966-968, 2111
root crops 636, 914, 3195
small fruits 401, 659, 663, 668, 672, 674, 676, 683, 1317, 1703, 2105, 2438, 2736, 3570
tree fruits 73, 404, 407, 409, 659, 676, 679-680, 682, 685-688, 961-962, 965, 1320, 1325, 1715, 2737-2738, 3577
vegetables 385, 915, 950, 1290, 2728
damage 38, 372, 967, 1325, 1582, 2045, 2728
diseases 1574
economics 3439
mixtures 435
no-tillage 3577
rates 1582
residual effects 961, 1582, 3016
safeners 2045, 3580
sward renovation 3539
tolerance 1055
weeds 495, 712
wetters 2764
yields 26
Simetryn
analytical methods, immunoassay 1943, 2289
usage
crops, cereals 2045
damage 2045
safeners 2045
Simsia 1794
Sinapis alba 753, 1185, 1391, 1977, 2889, 2943
Sinapis alba **(weed)** 904, 1096
Sinapis arvensis 927
biology
exudates 1867
physiology 3318
control
biological control, insects 1084
chemical control 646, 997, 1570, 1601, 2093, 2654, 2712, 2714, 3456
acifluorfen 1603, 3013
atrazine 2036
bentazone 1603, 2072
bromoxynil 567, 1560, 2966
butylate 1643
chloramben 1603
cycloate 633
2,4-D 567, 881, 2036, 2072
dicamba 2072
diclofop 881, 1560, 2966
dinoseb 3013
EPTC 633
fomesafen 1603
linuron 1268
MCPA 1560, 2966
metobromuron 1268
metolachlor 633
metribuzin 633, 1603
prometryn 1014, 1643
trifluralin 1014, 1603, 1643, 2097
management
fertilizers 1829, 3287
mowing 1629
Sinapis arvensis *cont.*
control *cont.*
management *cont.*
site preparation 3287
species shift 881, 1829
ecology
climate 1049
competition 1034, 1036, 2175, 3645
distribution 2182
habitats 486, 1049, 3318
light 3318
nutrient uptake 1034
hosts of plant pests 1084, 1867, 2236
seeds
dormancy 2876, 3287
germination 997
light 3279, 3287
stimulants 2876, 3287
temperature 2876, 3287
irradiation 3287
production 1084, 3645
Sisymbrium altissimum 167, 1709
Sisymbrium irio 1668, 1804
Sisymbrium orientale 1841
Snowdenia polystachya 2646
Sodium chlorate 3382
Solanaceae 1062, 3080
Solanum 724, 1692, 2093
Solanum americanum 438, 460, 1265, 1639
Solanum carolinense 202, 1020, 2261, 2843, 3730
Solanum cumingii 2531
Solanum elaeagnifolium 787, 1749, 2870, 3118, 3518
Solanum gracilius 3330
Solanum halepense, control, chemical control 1219
Solanum laciniatum 2847
Solanum lycocarpum 845
Solanum malacoxylon 3039
Solanum muricatum 3671
Solanum nigrum
biology
anatomy 143
composition 2219
cytology 1028, 2219
genetics 461, 2158-2159
leaves 1028
morphology 143
photosynthesis 2266
physiology 1890, 2219, 2266
stomata 1028
taxonomy 460, 1028, 1384
control
biological control, insects 3080
chemical control 1219, 1231, 1265, 1293, 1696, 2403
acifluorfen 650, 1603
aclonifen 29
alachlor 39, 438, 2413
atrazine 29, 310, 2105, 2670, 3548
benfluralin 2090, 3549-3550
bentazone 29, 39, 1603, 2105
bromofenoxim 2671
bromoxynil 2670
butralin 2090-2091, 3548, 3550
carbetamide 3548
chloramben 438, 1603
chloridazon 630
dicamba 310
dimefuron 3548
dinoterb 3548, 3550
DSMA 1639
EPTC 2090, 2670, 3549-3550
ethalfluralin 438, 3548
ethofumesate 630
fluorodifen 63
flurochloridone 1636, 2413
fluroxypyr 29
fomesafen 63, 1603
glyphosate 2105
lenacil 630
linuron 39, 63, 2413
metham 650
metobromuron 2413
metolachlor 438, 1295, 2091, 2413, 2670, 3548, 3550
metribuzin 866, 1603
Solanum nigrum *cont.*
control *cont.*
chemical control *cont.*
monolinuron 63, 2090-2091, 2413, 3548, 3550
MSMA 1639
neburon 2090, 3548, 3550
oxyfluorfen 683
pendimethalin 2670, 3548, 3550
phenmedipham 630
prodiamine 678
prometryn 2413
propachlor 2091, 3548
propham 630
proximpham 630
sethoxydim 39
simazine 2105
terbumeton 2105
terbuthylazine 2105, 2671
trifluralin 39, 866, 1603, 3554
cultural control
flaming 39
hoeing 39
manual control 1366
economics 1293
herbicide application, resistance 29, 521, 1121, 1890, 2670
management
fertilizers 1293
rotations 3199
species shift 2670
ecology
biotypes 2266, 3363-3364
competition 2810
cytology 3364
distribution 2437
soils 2521
synecology 2521
hosts of plant pests 507, 776, 3344
plant diseases 506, 2219
plant pests 2847
seeds, contamination 1366
Solanum pseudocapsicum 2555
Solanum ptycanthum 438, 2513, 2785, 3239, 3647
Solanum rachoides 3647
Solanum repandum 3290
Solanum retroflexum 2159
Solanum rostratum 1020, 2495, 2805
Solanum sarrachoides 438, 1265, 1295, 2652
Solanum sisymbriifolium 1866, 2227
Solanum torvum 149
Solanum villosum 460
Solidago 195, 402-403, 1730
Solidago altissima 1109
Solidago canadensis 454, 689, 2142, 3342
Solidago fistulosa 1116, 1706
Solidago lanceolata 689
Solidago rugosa 2443
Soliva 345
Sonchus 672, 2190, 3626
Sonchus arvensis 363, 486, 862, 881, 885, 989, 1013, 1133, 1367, 1614, 2192, 2362, 3164, 3444, 3514
Sonchus asper 2193, 3333
Sonchus oleraceus 188, 678, 837, 1841
Sopubia delphinifolia 2551-2552
Sorbus sitchensis 654
Sorghastrum nutans 3385
Sorghum
bioassays 2520
herbicide application
damage 548, 2376, 3156, 3756
parasitic weeds 3326
physiology 222, 287, 1125, 1910, 2271, 2376, 2580, 3124-3125, 3137
residual effects 548, 886, 1591, 2016, 2054, 2351, 3756
safeners 287, 318, 614, 1125, 1221, 1909, 2271, 2377, 2646, 3477, 3480, 3500
selectivity 614, 2646
soils 2933
stubble 344
susceptibility 1606, 2659
tolerance 2016
varietal susceptibility 2974, 3756
yields 2351
weed control 1222, 3421

Sorghum *cont.*
weed control *cont.*
chemical control
alachlor 897, 3479-3480
atrazine 885, 2676, 2973-2974, 3479-3480
bensulide 897
2,4-D 295
dicamba 295
EPTC 897
glyphosate 295
metolachlor 897, 3479-3480
pendimethalin 3478
simazine 2676
cultural control
hoeing 2676
manual weed control 2676
integrated control 3476
management, intercropping 3304, 3494
no-tillage 318, 2965
surveys 3436
weeds
allelopathy 1175, 2520, 2811
competition 467, 471, 1869, 2352, 2515, 3304
crop losses 2352
parasitic weeds 186, 1071, 1080, 1862, 2832, 3327
seeds 2520
contamination 3616
surveys 752
yields 471, 1869, 3494
Sorghum bicolor 2970, 2984, 2993
Sorghum halepense
biology
composition 1391
identification 3189
leaves 147
morphology 1104
photosynthesis 147, 1407
physiology 1407
rhizomes 130, 1016, 2137
shoots 130
transpiration, stomata 2829
water relations 1407
control
biological control 1104
fungi 2840, 3686
chemical control 343, 1220, 1240, 1246, 1347, 1581, 2698
acifluorfen 342, 1235
alachlor 2356, 2946, 3372, 3777
alloxydim 1643
atrazine 1586, 2356, 2457
bentazone 1235
butylate 1643
chloramben 41
chlorazifop 327, 3517
cinmethylin 3372
cloproxydim 3519
2,4-D 3473
dalapon 921, 924, 2457
diuron 2457
EPTC 156, 921, 2356
fenoxaprop 327, 1643, 2356, 3497, 3517
fenthiaprop 3497
fluazifop 41, 327, 331, 1235, 1602, 1643, 1881, 2356, 2458, 2721, 2879, 3030, 3231, 3497, 3517, 3519, 3543
fluchloralin 331
fluometuron 921
glufosinate 2458
glyphosate 327, 921, 960, 1214, 1744, 2123, 2356, 2375, 2458, 2721, 2751-2752, 3030
haloxyfop 41, 331, 1643, 2458, 2721, 2993, 3231, 3517, 3519-3520
imazapyr 2743
imazaquin 1232, 1237, 3030
ioxynil 2457
linuron 41, 342
metribuzin 342
MSMA 3171, 3520
norflurazon 3520
oryzalin 2946, 3777
Sorghum halepense *cont.*
control *cont.*
chemical control *cont.*
paraquat 1214
pendimethalin 331, 3520
prodiamine 678
prometryn 1643
quizalofop 332, 1643, 2458, 3030, 3231, 3497, 3519, 3521
sethoxydim 327, 331, 1235, 1602, 1643, 2458, 3030, 3473, 3517, 3519-3520
TCA 2457
trifluralin 331, 921, 1643, 2356, 2457, 3372, 3520, 3777
cultural control 1246, 1347
cutting 2752
discing 1214
ploughing 1214
herbicide application
physiology 2879, 3127
resistance 74
safeners 3500
tolerance 1907
integrated control 1347, 1614
management, rotations 1614
non-crop weed control
canals 2751-2752
rivers 2751
ecology
biotypes 2458
competition 156, 159, 1104, 2821
distribution 1822, 1827, 2035, 2189, 2208
regenerative ability 2137
soils 2821
spread 2208, 3655
water relations 2821
water stress 1407
poisonous weeds 2208
rhizomes 131
seeds
contamination 1830
depth of burial 1005
dormancy 1005, 1759
germination
light 1759
temperature 1759
growth regulators 1759
spread 1347
shoots 131
utilization 2208
Sorghum sudanense 1104
Sorghum (weed) 343, 1468, 2509, 2512, 2627
South America, flora 139
Soyabeans
bioassays 162
herbicide application 1547
additives 2983
breeding for herbicide resistance 520, 1895
damage 256, 548, 1196-1197, 1245, 1483, 2692, 2983, 2992, 3217, 3742
safeners 3757
soils 3757
wetters 3757
yields 3757
diseases 907-908, 2696
fertilizers 3220
germination 1468
growth 1473
interactions 1600
irrigation 866
microorganisms 2318
morphology 2569
no-tillage 2370, 2986, 3217
nodulation 2691
nutrient uptake 1250
physiology 211, 214-215, 222-223, 514, 1106, 1123, 1467, 1473, 1483, 1605, 1886, 1899, 1904, 1910, 2253, 2256, 2259, 2273, 2879, 2896, 3137, 3171, 3739
proteins 1904
quality 624
rain 2990
residual effects 548, 886, 1513, 2016, 2694, 3217
Soyabeans *cont.*
herbicide application *cont.*
residues 2910
safeners 28, 3500
seed quality 2696
soil mesofauna 3772
susceptibility 283, 1473, 2659
tissue culture 214
tolerance 1229, 1245, 2879, 3739, 3741
varietal susceptibility 520, 1245, 2052
wetters 2983
yields 327-328, 331, 624, 1196-1197, 1211, 1229, 1235, 1238, 1245, 1455, 1605, 2053, 2370, 2694, 2991-2992
soils
adsorption 3757
movement 3757
weed control
biological control
fungi 2247, 3686, 3692
mammals 3706
mycoherbicides 778, 780-781, 3692
pathogens 3696
chemical control 40, 276, 307, 335, 338, 343, 1228, 1246-1249, 1666, 1846, 2054, 2355, 2459, 2813, 2987-2988, 2994, 3219, 3475
acifluorfen 339-340, 342, 1230-1231, 1233-1236, 1242, 1601, 1603-1605, 2053, 2386-2387, 2392, 2692, 2695, 2986, 2989-2990, 2992, 3218, 3499
alachlor 27, 39, 317, 328-329, 336-337, 586, 621, 624, 1241-1242, 1601, 2053, 2394-2395, 2946, 2964, 2986, 2992, 3499, 3777
alloxydim 620, 1601
barban 1000
bentazone 39, 339-340, 620, 624-626, 1231, 1235, 1242, 1603-1604, 2053, 2386-2388, 2692, 2695, 2986, 2989-2990, 2992, 3218, 3499
chloramben 41, 1603, 2986, 2992
chlorazifop 327, 620, 2694
chlorbromuron 1601
chlorsulfuron 1197
cinmethylin 236, 329
cyanazine 2, 44
2,4-DB 1244, 2386
diclofop 620, 1000
dinoseb 1605, 2695
EPTC 1296
ethalfluralin 918
fenoxaprop 327, 1234, 2055, 2986, 3497, 3499
fenthiaprop 3497
fluazifop 41, 327, 331, 337, 620, 918, 1233, 1235, 1468, 1602, 2055, 2393, 2690, 2694, 2879, 3497, 3499
fluchloralin 328, 331, 585, 625-626, 2388-2389
fluorodifen 1604
fomesafen 1603-1604, 2393, 3499
glyphosate 327, 1232, 1236, 1241, 2694, 2981
haloxyfop 41, 331, 336-337, 918, 1234, 1468, 2055, 2387, 2393, 2993
imazaquin 333, 336, 340, 1230, 1232, 1237-1239, 1242, 2386, 2981, 2985, 2992
linuron 39, 41, 333-334, 339-342, 1227, 1241, 1601, 2391, 2695, 2964, 2982, 2992, 3499
mefluidide 2692, 3218
methabenzthiazuron 2388
metobromuron 2395, 3499

Soyabeans *cont.*
weed control *cont.*
chemical control *cont.*
metolachlor 333, 336-337, 918, 1241, 1601, 2395, 2693, 2986, 2992
metribuzin 42, 328-329, 339, 341-342, 586, 621, 624, 866, 1227, 1239, 1241-1242, 1244, 1603, 2386-2387, 2695, 2982, 2986, 2992-2993, 3499
monolinuron 918
naptalam 2695
nitrofen 328, 2690
norflurazon 3777
orbencarb 1601
oryzalin 42, 44, 1241, 1244, 2391, 2946, 3777
oxadiazon 918, 2389
oxyfluorfen 2388, 2395
paraquat 1232, 1241-1242, 2386, 2391
pendimethalin 331, 336, 1242, 2053, 2386, 2395, 2693, 2986, 3499
prometryn 1601
quizalofop 332, 865, 2055, 3435, 3497, 3499, 3521
sethoxydim 39, 327, 331, 337, 620, 1235, 1468, 1601-1602, 1605, 2053, 2694
tri-allate 1000
trifluralin 39, 331, 586, 612, 621, 866, 1296, 1603, 2693, 3499, 3777
vernolate 43, 561, 1601
cultural control 276, 307, 624, 3219
burning 2394
cultivation 2394, 2690
direct sowing 2391
flaming 39
hoeing 39, 585
manual weed control 625-626, 2389, 2394, 2690
mulching 2394, 2396
energy requirements 585
integrated control 2690
management 2813
cropping systems 626, 1000
fallow systems 1000
intercropping 3494
rotations 2395
no-tillage 2, 327, 624, 1196, 1237, 1240-1241, 1243, 2053, 2394-2395, 2965, 3501
recommendations 870, 1248, 2122
reviews 619, 3498
surveys 3436
weeds 2397
allelopathy 162, 2174, 3300
competition 330, 473, 622-623, 1036, 1211, 1243, 1411-1412, 1417, 1511, 2174, 2372, 2511-2515, 2694, 2792, 2801-2803, 2817, 3057-3058, 3186, 3300, 3303, 3643
contamination 3282
crop loss 1412
distribution 1827, 3686
harvest losses 2513
hosts of plant diseases 2514
hosts of plant pests 2230, 3335, 3706
seeds 330, 1000, 2372, 2532, 3282
soils 3300
surveys 1049, 1827, 3686
yields 330, 473, 622-623, 1036, 1211, 1411, 1511, 2396, 2512, 2801, 3057, 3186, 3494
Spain
flora 1427, 1823
weed control, reviews 1823
Sparganium 1226, 2157
Spergula arvensis 163, 345, 455, 883, 919, 934, 1357, 1807, 2037, 2187, 2781, 2818, 3329, 3347
Spergula maxima 2488
Sphenoclea zeylanica 265, 321, 325, 2381, 2976
Spinach
bioassays 231
herbicide application
damage 1620
physiology 227, 529, 1128, 1131, 1143, 1477, 2277, 2587, 2887, 2899, 3381
residues 1949, 3011
tolerance 3381
weed control
chemical control
cycloate 3011
isocarbamide 3011
lenacil 3011
metolachlor 3011
Spiraea 2851
Spiraea latifolia 402-403
Spirodela 1402
Spirodela oligorhiza 144-145
Spirodela polyrhiza 733, 744, 1345, 1466
Spirogyra 106
Spirogyra singularis 1355
Sporobolus africanus 1283
Sporobolus cryptandrus 2743
Spraying
controlled droplet application 3166
electrostatic spraying 3166
Squash 646, 1046, 1118, 1299, 2431
Stachys annua 600, 1268, 2194
Stachys palustris 2182
Statistics
herbicides
UK 571
USA 1528
Yugoslavia 2339
weed control 2636
Stellaria 1192
Stellaria media
biology
exudates 1867
mycorrhizas 1156
physiology 1030
pollen 2488
control
biological control, insects 3345
chemical control 8, 1096, 1220, 1618
alachlor 648, 2037
benazolin 362, 3525
bifenox 300
bromoxynil 11, 300, 2031, 3461-3462
carbetamide 2687
chlorsulfuron 10, 291, 2031, 3462
clopyralid 362, 3525
cyanazine 3441
2,4-D 300, 600, 877, 2031
dicamba 300, 2031
dichlorprop 1579
diethatyl 648
diflufenican 3449
dimefuron 2687
dinoseb 300, 2687
dinoterb 2687
EPTC 934, 2037
ethofumesate 1656
flurochloridone 300, 1636
fluroxypyr 11, 1649, 1657
ioxynil 11, 3461-3462
isoproturon 584, 3449
isoxaben 595, 1972, 2024, 3441-3442
MCPA 300, 600, 2031
mecoprop 1579, 3461-3462
metamitron 1821
methabenzthiazuron 1821, 2687
metolachlor 648
metribuzin 300, 1821
metsulfuron 10, 3462
napropamide 648
norflurazon 1709
oryzalin 648
oxyfluorfen 648, 654, 683, 685
pendimethalin 300, 685, 3461
prometryn 2037
propyzamide 685
pyridate 300
simazine 683, 685, 877
trifluralin 648
Stellaria media *cont.*
control *cont.*
cultural control
cutting 3637
manual weed control 3637
herbicide application, resistance 384
management, fertilizers 1156, 1829
species shift 1821, 1829
ecology
competition 384, 605, 737, 1817, 3298, 3461, 3637
distribution 2182, 2186, 2194
nutrient uptake 1030, 3298
soils 2186, 2781
spread 1047
hosts of plant pests 1867, 2233
parasitic weeds 504
seeds
contamination 737, 2078
dormancy 996
germination 720
temperature 996
populations 448, 2781
soils 448
spread 448
Stemodia verticillata 2371
Stenotaphrum secundatum 1312, 1315, 2102
Stevia eupatoria 1045
Stipa comata 1770
Strawberries
herbicide application
damage 666, 668
interactions 668
tolerance 665-666
yields 666, 1702
weed control
chemical control 667, 861
alloxydim 665
amitrole 659
chloroxuron 2733
chlorthal-dimethyl 662, 664
clopyralid 659, 661
dazomet 669
dicamba 661
diphenamid 659, 661-662, 664, 2733, 3021
fluazifop 659
glyphosate 661
lenacil 401, 663-664, 2733, 3021
metamitron 3021
metazachlor 3021
metham 669
napropamide 659, 662-663, 2733, 3021
norflurazon 659
oxyfluorfen 659
pendimethalin 659, 663, 3021
propachlor 664
sethoxydim 659, 665
simazine 401, 659, 663
terbacil 401
trifluralin 3021
flurochloridone 3545
weeds, seeds 669
Streptomycin sulphate 3153
Striga 163, 1071, 1079-1080, 1690, 1859, 2836, 3326, 3791
Striga asiatica 3327
biology
development 1081
genetics 1080
physiology 1071, 1081
roots 1081
ecology
distribution 2832
spread 2832
seeds
dormancy 2876
germination
stimulants 1080, 2876
temperature 2876
Striga densiflora 2832
Striga gesnerioides 909, 1071
Striga hermonthica 186, 502-503, 1058, 1862, 2832
Striga lutea 2676
(see Striga asiatica)
Striga orobancoides *(see Striga gesnerioides)*

Striga sulphurea 1838
Strigol 1064, 1079, 1908, 2836, 3327
Stylosanthes guianensis 75
Suaeda corniculata 2415
Suckleya suckleyana 2495
Sudan, flora 1392
Sugarbeet
herbicide application 2630
breeding for herbicide resistance 2268
climate 1258
damage 346, 534, 1253, 1608, 1620, 1628, 1940
diseases 1257, 2022
economics 1556
growth 346
mycorrhizas 1156
physiology 230, 534, 800, 1462, 1479
proteins 2700
quality 2402, 3510
residual effects 886, 1546, 2351
residues 1253, 1920
safeners 28, 1626
selectivity 1258
sugars 2402, 2700, 3510
susceptibility 283, 1997
tolerance 2594
varietal susceptibility 230
yields 1189, 1253, 1608, 2351, 2402, 2700-2701, 3510
weed control 3511
chemical control 275, 347, 587, 864, 1256, 1556, 1609, 1621, 2702
alloxydim 1625, 2703
atrazine 1156
benfluralin 348
chloridazon 47, 348, 630, 911, 1156, 1584, 1608, 1612, 1618-1620, 1625, 1627-1628, 2057-2058, 2403, 2700-2701
cycloate 911, 1607, 1620, 1627, 2057, 2700, 2706
cycloxydim 1631
dalapon 911
desmedipham 1633
di-allate 348, 1607, 1619-1620, 1625
dicamba 1616
dichloralurea 1627
diquat 1616
EPTC 911, 1607, 1626-1628, 2706
ethofumesate 348, 630, 1607, 1619-1620, 1625, 1628, 1632, 2056, 2700
fenthiaprop 2401
fluazifop 46, 1189, 1259, 1633, 1745, 2401, 3543
glyphosate 837, 1616
haloxyfop 348, 2401
lenacil 47, 348, 630-631, 911, 1254, 1618-1620, 1624-1626, 1699, 2057, 2700-2701, 2703, 2706
metamitron 46-47, 348-349, 1584, 1608, 1612, 1620, 2056, 2058, 2404
methabenzthiazuron 1156
metham 647
metolachlor 1607, 1625, 2057-2058, 2403, 2700-2701, 2706
metribuzin 2700
paraquat 1616
pebulate 2706
phenmedipham 46-47, 345, 348-349, 630-631, 911, 1612, 1624, 1626, 1632-1633, 2056, 2058, 2403-2404, 2700, 2703, 2705
propham 630
proximpham 630
sethoxydim 1189, 2401
TCA 631, 911, 1254, 1624-1627, 2703, 2706
thiobencarb 2058, 2703
trifluralin 46, 1608, 1618, 1699
cultural control 1609

Sugarbeet *cont.*
weed control *cont.*
cultural control *cont.*
cultivation 1584, 1623, 2336
discing 2336
harrowing 2336
hoeing 46, 1616
manual weed control 1616
ploughing 1584, 1615, 2028
rotary cultivation 1584
economics 46, 1170, 1617, 1630
extension 1622
integrated control 864, 1610, 1613-1614, 1622
management 347
fertilizers 1813
mowing 1629
rotations 1614, 1813, 3199
seedbed preparation 1615
minimum tillage 2028
recommendations 870, 1255
reviews 1256
weeds
competition 629, 1413, 1611, 1613, 1813-1814, 1844, 2059, 3298
distribution 751, 1258, 1422
hosts of plant diseases 2228
hosts of plant pests 2235
parasitic weeds 2832
seeds 1758
surveys 2183
yields 1611, 1758
Sugarbeet (weed) 1609, 1616, 1618, 1758
Sugarcane
herbicide application
residual effects 3251
soils 3251
weed control 3190
chemical control
acetochlor 3252-3253
alachlor 3253
ametryn 3250, 3252
asulam 2110, 3250
atrazine 74
2,4-D 2110, 3252
dalapon 3250
diuron 3252
ioxynil 3252
metazachlor 3253
metolachlor 3253
paraquat 2110, 3252
cultural control, manual weed control 2110
weeds
competition 159, 2352
crop losses 2352
distribution 3064
hosts of plant pests 189, 2231, 2237
parasitic weeds 2832
plant pests 3673
surveys 2537, 2644
yields 159
Sulfometuron
analytical methods, chromatography 1924
formulations 1333
physiology
degradation 2272
genetics 2272
metabolism
amino acids 2272
enzymes 2272
mode of action 1333
translocation 104
uptake 104
residues, water 104
toxicology 1333
usage
aquatic weeds 104
crops
forests 88, 1326, 1342, 1730, 1735, 2449-2450, 2746, 3262, 3265
lawns and sports turf 1309, 1701, 2435
damage 415, 1730
mixtures 111, 1326
non-crop weed control 111, 2465, 2767
Sulphonate, 4-(2,4-dichlorobenzoyl)-1,3-dimethyl-5-pyrazolyl-*p*-toluene- 2905

Sunflowers
bioassays 3768
herbicide application
damage 927
direct sowing 3232
interactions 2329
no-tillage 2647
physiology 206, 517, 524, 2713, 2884
residual effects 1546
residues 2598
safeners 1588
selectivity 927, 2714
soils 927
susceptibility 283, 860, 2329
yields 3526
weed control 2947
chemical control 2647
acetochlor 3527
alachlor 1269-1270, 2037, 2413
alloxydim 1643
benfluralin 3527
bifenox 3530
bromoxynil 1267
butylate 1267, 1643, 3530
chloramben 1267
chlorazifop 1644
chlorbromuron 3527, 3530
diclofop 1270
EPTC 1588, 2037, 3527
ethalfluralin 918
fenoxaprop 1643
fenuron 3527, 3530
fluazifop 918, 1270, 1643-1644, 3231, 3543
flurochloridone 1269-1270, 2413
glyphosate 926, 2655, 3232
haloxyfop 918, 1643-1644, 3231, 3530
linuron 1268-1270, 2413, 3000, 3527
MCPA 1267
mecoprop 1267
metobromuron 1268, 1270, 2413, 3527
metolachlor 918, 1267, 1269, 2413, 3527
monolinuron 918, 2413
neburon 1270
oxadiazon 918
pendimethalin 1270
prometryn 1014, 1267, 1270, 1588, 1643, 2037, 2413, 3527, 3530
quizalofop 1643, 3231
sethoxydim 1270, 1643-1644
terbutryn 3000, 3528
trifluralin 1014, 1267, 1643, 3527
minimum tillage 2655, 3206
no-tillage 2814
recommendations 870, 3529
weeds
allelopathy 1046
competition 1036, 1414, 1869, 2517, 3231
parasitic weeds 187, 500-501, 926, 1062, 1071, 1076, 3323-3324, 3665
seeds 3288
surveys 1049, 2183, 2199
yields 1036, 1869
Sunflowers (weed) 918, 2495, 3549
Surveys
aquatic weeds 178
Canada, education 3408
cereals, weeds 164, 2192, 2816
Chondrilla juncea, Australia 3654
citrus, weeds 138
cotton, weeds 752, 1827
crops, weeds, USSR 862
culinary herbs, weeds 755
Czechoslovakia 747
flora 479, 748
flora
Canada, Saskatchewan 753
German Federal Republic 2916
Greece 3626
UK 757
forests, weed control 2742
grapevines, weeds 2203

Surveys *cont.*
grasslands, weeds 2200
oil plants, weeds 2192, 2816
parasitic weeds, insect pests 2850
rice, weeds 2530
sorghum, weeds 752
Sorghum halepense, ecology, spread 3655
soyabeans, weeds 1827
sugarbeet, weeds 2198
sunflowers, weeds 2199
tree fruits, weeds 2204
USA, education 3408
weed control, USA, Kansas 3436
weeds
Australia 1780
Canada 2816
India 1388
Poland 2191
USA 1822
Yugoslavia 2186, 2198, 2200, 2203-2204
wheat, weeds 2196
SV 650 A 2684
Sweden
herbicides, testing 3782
weed control, economics 3786
Swedes 362, 883, 2367
Sweet potatoes 1264, 1445, 1637, 1687-1688, 2531
Sweetcorn
herbicide application, yields 2604
weed control
chemical control
alachlor 374
butylate 374
cyanazine 374
metolachlor 374
weeds
allelopathy 3300
competition 3300
soils 3300
Sweetcorn (weed) 1687
Swep
physiology
cytology
chloroplasts 1128
nucleotides 1128
metabolism, enzymes 1128
mode of action 1128
photosynthesis 229
Symphoricarpos occidentalis 2722
Symphoricarpos orbiculatus 3583
Symphytum tanaicense 1382
Syria
flora 456
reports 2385
Syringa villosa 977
Syzygium aromaticum 974
2,4,5-T
analytical methods
gas chromatography 1486, 1921, 1923
mass spectrometry 1921
formulations 1510
physiology, metabolism, alkaloids 1282
residues
soils 1332
water 1486
soils
adsorption 554, 3760
cation exchange 3760
chemical degradation 1486
degradation 1510, 2308, 3760
earthworms 2323
leaching 3150, 3760
microbial degradation 1510, 1971
microorganisms 1510
persistence 1510, 2308
types 3760
vaporization 3760
toxicology
carcinogens 1498, 3394
crustacea 2300
earthworms 2323
environmental pollution 2300
fishes 2300
mammals 3394
man 1492, 1498
mollusca 2300
teratogens 3394
2,4,5-T *cont.*
toxicology *cont.*
tests 3150
usage
application
equipment 1166
methods 1681
crops
forests 979, 1332, 1349, 1741-1742, 3266
grasslands 3004
ornamentals 1349
rangelands 1282, 1681, 1686, 3004
economics 1742
poisonous weeds 1282
weeds 1353
woody weeds 1166
Tacazzea yototacolla 3275
Taeniatherum caput-medusae 1762
Tagetes minuta 1046, 1994
Taiwan, reports 3191
Tanacetum vulgare 1385
Tanzania, flora 3798
Taraxacum 2160
Taraxacum laevigatum 1796
Taraxacum officinale 2434
biology
composition 2343, 2496, 3663
genetics 1796
geotropism 1057
gravitropism 1461
physiology 1057, 1461, 2577
roots 3663
taxonomy 1796
control
chemical control 404
2,4-D 54, 2373
ethofumesate 1656
fluroxypyr 1649, 1657
glyphosate 2373
lenacil 2060
MCPA 54
MCPB 54
norflurazon 1709
oxyfluorfen 654
paraquat 1653, 2373
phenmedipham 2060
triclopyr 1658
cultural control
direct sowing 1653
mulching 1110
management, fertilizers 3537
species shift 1675, 1677
ecology
colonizing ability 1385
competition 2059, 3646
habitats 486
metal tolerance 2496
seeds, soils 1677
Taxus media 69
2,3,6-TBA
analytical methods 3143
residues, water 3143
usage
crops, cereals 606, 890, 3444
mixtures 3444
TCA
analytical methods
bioassays 1940
colorimetry 813
gas chromatography 2286
thin layer chromatography 1922, 1940
physiology
cytology, cell membranes 800
photosynthesis 230
residues
atmosphere 2286
plant residues 3164
soils 1940, 2286, 2607, 3164
water 2607
soils
degradation 1940
microbial activities 1320
microbial degradation 2607
movements 2607
persistence 1940
usage
crops
cereals 1593
TCA *cont.*
usage *cont.*
crops *cont.*
fibre plants 920
oil plants 3230
root crops 230, 631, 911, 914, 1254, 1257, 1624-1627, 2703-2704, 2706, 3512
tree fruits 1320
vegetables 915, 1288
damage 1626
mixtures 1625-1627
weeds 1353
yields 3230
Tea 689, 2739
Tebutam, usage, crops, oil plants 3522
Tebuthiuron
formulations, pellets 1970
soils
mineralization 3163
movements 1970
nitrification 3163
persistence 1970
usage
crops
forests 1728
grasslands 1680
rangelands 935, 1685, 1970
non-crop weed control 2767
residual effects 936
woody weeds 1685, 1728, 1970
Techniques
aerial photography 3792
analytical methods
allelopathins 1175
mycotoxins 1096
assessment 849
computer analysis 1621, 3417
computer models 2311, 2628-2629, 2873, 2955, 3187
computer techniques 1751, 2344, 2941
data collection 2344
data processing 269
electron microscopy 270
experimental design 697, 2802
fluorescence analysis 3146
fluorescence emission 3322
herbicide resistance 1997
herbicide tolerance, fluorescence 2414
herbicides 550, 2920
analytical methods, bioassays 816
evaluation 906
soils 3150, 3760
image analysis 3417
integrated pest management 3791
isotopes 572
mathematical models 134, 887, 1119, 1589, 1806, 1887, 2325, 2448, 2639, 2911, 3159, 3179
models, yield losses 3188
parasitic weeds, resistance 1073
pollutants, analysis 1174
recommendations, computer techniques 851
remote sensing 1173
sampling 2909
sampling methods 2281, 2802
sampling techniques 1827, 2284
screening, methods 3746
simulation models, parasitic weeds 1067
soil analysis 566
spraying, computer analysis 1985, 1987, 2941
statistical analysis 271
video image analysis 850
weed seeds, core sampling 446
weeds
classification 478
mapping 2145
prediction 852
surveys 1827, 2492
X-ray microanalysis 272
Teesdalia nudicaulis 1047
Tenagocharis 1847
Tentoxin 1878
Terbacil
analytical methods
bioassays 2914
gas chromatography 1484
spectroscopy 1484

Terbacil *cont.*
physiology
photosynthesis 1858, 2914
selection 2270
residues, plant residues 1704
soils
adsorption 826, 2928
degradation 2928
persistence 2928
usage
crops
culinary herbs 3016
forests 82, 88, 3262
plantation crops 689
small fruits 401, 671, 676, 2734
tree fruits 73, 676, 687-688
damage 372, 671, 689, 1704
residual effects 3016
resistant weeds 1474
yields 671
Terbumeton
soils, fertility 680
usage
crops
forests 1337
small fruits 676, 2105, 2736
tree fruits 676, 680
Terbuthylazine
physiology
metabolism
enzymes 3376
vitamins 2406
soils, fertility 680
usage
application, methods 592
crops
cereals 288, 592, 2671-2672
forests 1337
root crops 355
small fruits 1318, 2105, 2736
tree fruits 680, 1325
damage 1318, 1325
quality 634
rates 592
tolerance 1055
Terbutryn
analytical methods
gas chromatography 2288
immunoassay 1943
chemistry, structure activity relationships 1124
formulations
controlled release 1522
wettable powders 1522
physiology
genetics
chromosome aberrations 2585, 2890
mitosis 618, 2585
metabolism
enzymes 1124
lipids 2968
vitamins 2406
selection 2270
residues, soils 1620
soils
microbial activities
enzymes 1155
nitrogen fixation 1155
respiration 1155
microorganisms, cyanobacteria 2319
types 1155
usage
compatibility, herbicides 2660
crops
cereals 318, 594, 618, 891, 894, 1592, 2362-2363, 2671, 3029, 3442, 3451
legumes 618, 1252, 2686, 3216
oil plants 3528
root crops 355, 2067
small fruits 1318
tree fruits 1325
vegetables 2384, 3557
damage 618, 1325, 1620
economics 3000
no-tillage 318
non-crop weed control 2765, 2768
quality 634
rescue crops 1620
selectivity 2686
Terbutryn *cont.*
usage *cont.*
tolerance 1055
yields 1252, 3451
Thailand
flora 1789
weed control, surveys 1789
Thelypteris noveboracensis 88
Themeda australis 2073
Thesis
breeding for herbicide resistance 3362
herbicide resistant weeds 3362
Thidiazuron
physiology
metabolism 513
morphology 701
usage
aquatic weeds 701
mixtures 3085
synergism 3085
Thiobencarb
physiology
degradation 2259
metabolism 2259
chlorophyll 531
photosynthesis 531
respiration 531
soils
types 3397
vaporization 2311, 3397
water rates 2311
toxicology, insects 2919
usage
additives 2380
aquatic weeds 425
crops
cereals 33, 36-37, 322, 324-325, 616, 902, 1225, 2047, 2378, 2380, 2677, 2976, 2979, 3483, 3485
root crops 2058, 2067, 2703
vegetables 386
damage 2976, 3483
economics 2047
green manures 2048
mixtures 3214
yields 2047, 2976
Thiopene-2-carboxylate, methyl 3-(3-(4-methoxy-6-methyl-1,3,5-triazin-2-yl) ureidosulphonyl)- 2650, 2658-2659
Thlaspi arvense 1084, 1192, 1560, 1570, 1770, 1867, 2037, 2060, 2196, 2199, 2712, 2876, 2966, 2980, 3035
Thlaspi perfoliata 996
Thuja plicata 1739
TIBA 3621
2,3,6-TIBA, analytical methods, gas chromatography 1923
TIBA, physiology, tissue culture 3360
Tiocarbazil, usage, crops, cereals 1225
Tobacco
herbicide application
breeding for herbicide resistance 219, 928, 1894-1895, 2583
damage 1149
growth 1473
physiology 1473, 3740
quality 365-366, 639, 1149
residues 1149, 2071, 3001
soils 365
susceptibility 1473
tissue culture 1894
tolerance 1646
uptake 1149
yields 365-366, 639, 1149, 1645, 2583
weed control
chemical control 3001
diphenamid 366-367, 1647
fluazifop 1272
fluchloralin 2715-2716
glyphosate 639
imazaquin 1645
maleic hydrazide 639
metham 639
metolachlor 3531
napropamide 1647
oxyfluorfen 2715
pebulate 639, 1647
pendimethalin 1272, 1647
sethoxydim 1272
Tobacco *cont.*
weed control *cont.*
cultural control 366-367, 1272, 3531
burning 2718
manual weed control 2715-2716
mulching 2716
rabbing 2716
no-tillage 366-367
weeds
competition 1272
parasitic weeds 504, 1062, 1068-1069, 2223, 2717, 2832
plant pests 510
yields 1272
Toluate, methyl 2-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)-*p*- 9, 13, 20-21, 1570, 1578, 1967, 2260, 2654, 2658, 2714, 2880
Toluate, methyl 6-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)-*m*- 9, 13, 20-21, 1570, 1578, 1967, 2260, 2654, 2658, 2714, 2880
Toluidide, *N*-(β-methoxyethyl) chloracetorto- 811
Toluidide, *N*,β-methoxyethylchloroacetate-*o*- 3365
Toluidide, *N*,β-methoxyethylchloroacetate-*o*- 3366
Toluidide, *N*,β-methoxyethylchloroacetate-*o*- 3369
Toluidide, α-chloro-*N*-2-methoxethyl-*o*-aceto- 1480
Tomatoes
bioassays 567
herbicide application
breeding for herbicide resistance 3371
damage 946, 2728
germination 3555
growth 65
physiology 1470, 1903
residual effects 2351, 3555
residues 1928, 2071
susceptibility 860, 1903
varietal susceptibility 1696
yields 650, 1696, 2351, 2430
weed control
chemical control 945, 2355, 3014, 3544
acifluorfen 650, 1696, 3239
chlorazifop 1687
cinmethylin 1688
cycloxydim 380
dazomet 1694, 3015
diphenamid 1695, 2430
EPTC 2430
ethalfluralin 1687
fluazifop 380, 1687, 1695, 2429, 3543
fluchloralin 2728
fluoroglycofen 3239
fomesafen 3239
haloxyfop 1687
methabenzthiazuron 2728
metham 647, 650, 1694, 3556
metolachlor 1695, 2430
metribuzin 380, 586, 1695, 2429-2430, 2728, 3015
napropamide 1695, 2429-2430, 3015
nitrofen 2728
oxadiazon 2728
oxyfluorfen 645
prometryn 2430
quizalofop 1687
sethoxydim 380, 1687, 1695, 2429
simazine 2728
trifluralin 2096, 2430
cultural control, manual weed control 2728
flurochloridone 3545
management 945
recommendations 1298
reviews 945, 3008
weeds
allelopathy 1046, 3717
competition 2810, 3647
yields 2809
hosts of plant diseases 2226

Tomatoes *cont.*
weeds *cont.*
hosts of plant pests 3336
parasitic weeds 1062, 1064, 1071, 2223, 2729, 2832, 2836
yields 2810, 3647
Torilis arvensis 3289
Torilis nodosa 3289
Tragopogon pratensis 477
Trapa nutans 176
Trapetum natantis 1831
Tri-allate
properties, volatility 1963
residues, atmosphere 1963
soils, vaporization 1963
usage
application, methods 1559
crops
cereals 594, 1559, 3029, 3454
fibre plants 920
diseases 2412
nodulation 1597
weeds 108, 1000
Triadimefon
analytical methods, high performance liquid chromatography 3144
residues, plant residues 3144
Trianthema 2405
Trianthema monogyna 64, 2976
Trianthema portulacastrum 127-128, 1842, 2352
Triasulfuron
chemistry 1911
physiology
mode of action 1573, 1911
translocation 2660
soils 1573
degradation 1911, 2660
moisture 2660
pH 2660
toxicology 1573
usage
additives 1573
compatibility, herbicides 2660
Triazepin-3-ones, 2-aryl-1,2,4- 1912
Triazin-5(4*H*)-one, 4-amino-6-(1,1-dimethylethyl)-3-(ethylthio)-1,2,4- 1571-1572, 2011
Triazin-5-(4*H*)-one, 4-amino-6-(1,1-dimethylethyl)-3-(ethylthio)-1,2,4- 2355
Triazin-5(4*H*)-one, 4-amino-6-(1,1-dimethylethyl)-3-(ethylthio)-1,2,4- 3458
Triazine, 2-(*N*-cyano-*N*-methyl)amino-4,6-bisisopropylamino-1,3,5- 914
Triazine sulphate, 2-(*N*-cyano-*N*-methyl) amino-4,6-bisisopropylamino-1,3,5- 914
Triazines 29, 231, 493, 523, 555, 814, 824, 1584, 1884, 1890, 1893-1894, 1915, 2266, 2284, 2302, 2586, 2889, 2898, 2994, 3131, 3134, 3143, 3146, 3362, 3472
Triazines, methylthio- 1474, 2926
Triazin-5(4*H*)-one, 4-amino-6-(1,1-dimethylethyl)-3-(ethylthio)-1,2,4- 8, 300, 1564, 1973, 2663-2664
Triazin-3-ones, 2-aryl-1,2,4- 1912
Tribonema minus 1355
Tribulus alatus 3181
Tribulus terrestris 2495, 2521, 2987, 3181
Trichostema lanceolatum 1108
Triclopyr
analytical methods, gas chromatography 1923
formulations 2102
physiology, metabolism, alkaloids 1282
residues, soils 2313
soils
degradation 2313
leaching 2313
persistence 2313
usage
additives 1986, 2464
application
equipment 1166
methods 89, 93, 95, 115, 711, 2741, 2749
applications, methods 3256

Triclopyr *cont.*
usage *cont.*
crops
cereals 711, 1593
forests 89, 92, 983, 1327, 1334, 1341, 1349, 1724-1727, 1733-1734, 1740-1741, 1986, 2117, 2440, 2741, 2744, 3256-3257, 3265
grasslands 1658, 2074, 2076
lawns and sports turf 1314, 2102, 2434
ornamentals 1349
plantation crops 78, 972, 3709
rangelands 1282, 1683, 1686
tree fruits 677
damage 67, 1341, 1726, 1733-1734
economics 78, 2749
mixtures 1339, 1344, 1683, 1740, 2074, 2464
non-crop weed control 112, 2464, 2741
poisonous weeds 1282
residual effects 109
synergism 2074
weeds 712, 984
wetters 67
woody weeds 92, 115, 983, 1166, 1331, 1334, 1339, 1683, 1724-1726, 1734, 2451, 2464, 2749, 2753
Tridiphane
chemistry, synthesis 2904
formulations 1887
physiology
degradation 1113, 1887
description 1887
metabolism 3393
amino acids 287
chlorophyll 1113
enzymes 224, 287, 1113, 1127, 3138
peptides 287
penetration 1887
peptides 1915
photosynthesis 1113
uptake 1113
properties
synergism 1127, 3393
volatility 1887
toxicology, *Diptera* 3393
usage
additives 1887
application, methods 2624
compatibility
herbicides 3138
insecticides 3393
crops
cereals 312, 2012, 2624, 2904, 3472
lawns and sports turf 396, 955-957
damage 955
mixtures 1915
synergism 224, 2904
Trietazine
analytical methods, chromatography 1929
residues
plant residues 1929
soils 1929
water 1929
usage, crops, root crops 49, 2061
Trifluralin
analytical methods
bioassays 281, 548, 1146
gas chromatography 1509, 2911
gas liquid chromatography 237, 1146
mass spectrometry 2911
application
equipment 3777
methods 3777
formulations, controlled release, emulsifiable concentrates 3501
physiology
anatomy 644, 944
cell division 2254
cytology 217, 2267
chloroplasts 2275
genetics 2267

Trifluralin *cont.*
physiology *cont.*
genetics *cont.*
mitosis 217, 3733
metabolism, pigments 2273
mode of action 217
photosynthesis 2273, 2275
ultrastructure 2254, 2275
properties
vapour pressure 3372
volatility 1963
residues
atmosphere 1963
plant residues 637, 941, 943, 948, 1291, 1300
soils 637, 941, 943, 1146, 1290, 2016, 2617, 3160
water 2911
soils
adsorption 943
degradation 612, 1509, 3160
irrigation 866
leaching 943
mesofauna 2693
microbial activities 948, 1320, 2937
nodulation 2617
microbial degradation 943, 1962, 3160
microorganisms 612
plant pathogens 3400
moisture 281, 1962
movement 2316
persistence 281, 1509
pH 1962
runoff 2911
temperature 281
types 1962, 3160
vaporization 1509, 1963
toxicology
aquatic environment 239
disposal 552
environmental pollution 239
fishes 239
hens 1495
rats 1495
usage
application
equipment 1980, 2335, 2946
methods 344, 923, 925
compatibility
fungicides 1962
insecticides 1962
crops
cereals 12-13, 589, 594, 3029, 3210, 3442
fibre plants 51-52, 921, 923, 925, 2998, 3520
fodder crops 1599
forests 80, 976, 3262, 3264
lawns and sports turf 395, 397
legumes 39, 331, 586, 612, 621, 866, 1247, 1250, 1296, 1603, 1672, 2052, 2082, 2423, 2684, 2689, 2693, 3499, 3501, 3554, 3777
oil plants 1014, 1267, 1643, 3230, 3527
ornamentals 390, 654, 3018
plantation crops 76
root crops 46, 637, 1253, 1608, 1618, 1699
small fruits 3021
tree fruits 1320, 1324
vegetables 375-376, 941, 943-944, 948, 1290-1291, 1295-1297, 1299-1300, 1697, 1699, 2096-2097, 2430
damage 52, 303, 376, 644, 944, 1672, 2016, 3742
diseases 907, 1697, 2412, 2696
incorporation 2052
irrigation 1299
mixtures 586, 866, 1618, 1962
no-tillage 3501
nodulation 1597, 2691
quality 2096
rates 943
rescue crops 281
residual effects 548, 1547, 2016
selectivity 2684
soils 2016

Trifluralin *cont.*
usage *cont.*
tolerance 1055
weeds 428
yields 303, 376, 1267, 2689, 2693, 3021, 3230, 3520
Trifolium 1043, 1062, 1277-1278, 1649, 3328
Trifolium alexandrinum 1582, 2423
Trifolium hybridum 2851
Trifolium incarnatum 773, 3335
Trifolium pratense
herbicide application
damage 883, 1672
residues 3152
tolerance 2665
weed control
chemical control 1420, 1672
asulam 3002
bentazone 2969, 3197
bromoxynil 2969
2,4-DB 371, 2969
EPTC 2969
glyphosate 837, 2427, 3002
MCPA 3197
MCPB 371, 1667
metolachlor 2969
paraquat 1653
pyridate 2969
vernolate 2969
cultural control 1420
direct sowing 1653
management 1420
grazing 2851
***Trifolium pratense* (weed)** 1337
Trifolium repens
herbicide application
damage 1671, 2424
sward renovation 3539
weed control
chemical control 1660
2,4-D 3539
dicamba 3539
diquat 2422
haloxyfop 1661
metsulfuron 1276
paraquat 1661, 2422
sethoxydim 1661
simazine 3539
triclopyr 1658
management, grazing 2851
weeds
competition 3646
seeds 3313
***Trifolium repens* (weed)** 378, 485, 957, 1337, 2434
Trifolium subterraneum 58, 1673, 1907, 2321
Trigonella foenum-graecum 2428
Trimexachlor 1156
Tripleurospermum maritimum 2980, 3452
Tripleurospermum maritimum* subsp. *inodorum *(see Matricaria perforata)*
Triticale 13, 15, 3453
Triticum durum 1562, 1575
Triticum monococcum 2584
Tropics, weed control, reviews 929
Tsuga canadensis 93-94, 391, 1340
Tsuga heterophylla 1739
Tussilago farfara 1385, 1614, 3627
Typha 183, 2252, 2453-2454, 2607, 2743
Typha angustifolia 96, 105, 124, 153, 457, 1834, 2750
Typha domingensis 105
Typha glauca 2794
Typha latifolia 96, 105, 124, 153, 176, 183, 457, 1145, 1834, 2750
Typhoides arundinacea 3646
U-8604 2684, 3551
U-8605 2684-2685, 3551
U-8606 3548
U-8607 2685
U-8608 2685
U-8610 2685
U-8707 3548
Uganda, flora 3798
UK
flora 172, 1380-1381
herbicides
approved products 581
economics 660
UK *cont.*
herbicides *cont.*
legislation 570, 660
statistics 571
weed control, organization of research 260, 2961
Ulex europaeus 1332, 1351, 1426, 1530, 2862
Ulmus 2851
Ulmus americana 94
Ulmus crassifolia 782
Ulmus minor 3185
Umbelliferae 1062
Uracils 1484
Urea, 3-(*p*-bromophenyl-1,1-dimethyl)- 2602
Urea, *N*-cyclopropyl-*N'*-(2-fluorophenyl)- 1910
Urea, 3-(6-methoxy-4-methyl-1,3,5-triazin-2-yl)-1-(2-(2-chloroethoxy)-phenylsulphonyl)- 1567
Urea, N-[4-bromophenyl]-N',N'-dimethyl- 3149
Urea, 3-phenyl-1-methyl- 2602
Ureas, phenyl- 231, 546, 1932
Ureas, phenylthio- 2285
Ureas, sulphonyl 3743
Urochloa panicoides 344
Urtica dioica 268, 1649, 1829, 2161, 2205, 2501, 2844, 3597
Urtica galeopsifolia 2161
Urtica hyperborea 846
Urtica pubescens 2161
Urtica sondenii 2161
Urtica urens 384
Uruguay, weed control 598
USA
flora 3627
herbicides, legislation 841, 1526, 1989
states
California
herbicides
economics 842
legislation 1168-1169
weed control
economics 3445, 3787
legislation 1991
recommendations 3568-3569
Connecticut
herbicides
legislation 1990
statistics 1528, 1990, 1992
Florida
weed control
biological control 2948
economics 2948
Hawaii, weed control, biological control 3426
herbicides, legislation 263
Indiana, education 3178
Iowa, herbicides, public health 3751
Kansas, weed control, surveys 3436
Louisiana, reports 1536
Michigan
herbicides
organization of research 1489
toxicology 1490
weed control, organization of research 1489
Minnesota, weed control, surveys 2742
Mississippi, flora 1027
Montana, herbicides, training 1987
North Dakota
flora 1023
weed control 931, 988
Wisconsin
herbicides, legislation 3750
weed control, surveys 2742
weed control
biological control 2859, 3426
education 3408
weed science, education 3410-3411
USSR
flora 2142, 2144
herbicides
economics 1170
legislation 840
recommendations 1190
recommendations 869
USSR *cont.*
weed control 869
economics 1170
organization of research 1167, 1190
recommendations 867, 870, 873, 1198, 1298
weeds, nomenclature 1021
Utricularia intermedia 1368
Vaccaria hispanica 2488
Vaccinium 1797
Vaccinium corymbosum 1797
Valerianella locusta 387
Vallisneria 497, 2454
Vallisneria americana 744, 1403
Vallisneria neotropicalis 3631
Vallisneria spiralis 421, 758, 2453, 3053, 3656
Vaucheria dichotoma 106
Ventenata dubia 1762
Veratrum californicum 441
Verbascum thapsus 731
Verbesina encelioides 116
Vernolate
soils, microbial degradation 561
usage
additives 561
application, methods 344
crops
cereals 315-316, 3470
fodder crops 2969
legumes 43, 910, 1601, 2052, 2969, 3226-3227, 3506
rangelands 3237
damage 3227, 3506
incorporation 2052
residual effects 1508
safeners 43, 316, 2377, 3237
tolerance 1055
yields 2969
Vernonia 77
Vernonia baldwinii 3583
Vernonia scorpioides 2112
Veronica 596, 1192, 1554, 1568, 2019, 2024, 2028, 2980, 3173, 3441-3443, 3449, 3463
Veronica agrestis 63, 2733
Veronica arvensis 448
Veronica hederifolia 10, 590, 1551, 2194, 2596, 2648, 3637
Veronica officinalis 677
Veronica persica 8, 10, 409, 588, 1268, 1805, 1972, 2009, 2011-2012, 2596
Veronica persicaria 1579
Viburnum 3243
Vicia 1156
Vicia cracca 661
Vicia faba
herbicide application
damage 1620, 2254, 2275
no-tillage 2647
physiology 209, 1120, 2254, 2275, 2585, 2890, 3383, 3496
proteins 3496
residues 3152
selectivity 2010
tolerance 618, 860
weed control
chemical control 906, 2647
2,4-D 3195
dicamba 3195
linuron 3195
MCPA 3195
prometryn 3195
simazine 3195
management, sowing rates 3056
weeds
distribution 751
hosts of plant pests 2242
parasitic weeds 499, 1062, 1064-1065, 1067, 1070-1075, 2385, 3056, 3325, 3664
surveys 1075, 2385
yields 1075
***Vicia faba* (weed)** 658
Vicia hirsuta 20, 1047
Vicia sativa 371, 1082, 2352, 3278, 3301, 3335

***Vicia sativa* (weed)** 16
Vicia villosa 1668, 2016, 3335
Vicoa flirliflora 3240
Vigna mungo 2409, 2428, 3254, 3303, 3305, 3648
Vigna radiata
bioassays 2428
herbicide application
physiology 222, 234, 2262, 3739
tolerance 2428, 3739
weed control
chemical control, fluchloralin 64, 3222
cultural control 64
manual weed control 3222
management, intercropping 3494
weeds
competition 64, 3303-3304
yields 3494
Vigna unguiculata 307
herbicide application
susceptibility 1606
yields 2069
weed control
chemical control 3502
fluazifop-butyl 2995
fluchloralin 2995
cultural control 3502
manual weed control 2995
integrated control 3502
management, intercropping 3254, 3494
weeds
competition 3303-3304
parasitic weeds 909
yields 3494
***Vigna unguiculata* (weed)** 3043
Viguiera 1794
Viola 402, 1554, 1821, 2024, 2685
Viola arvensis 10, 24, 584, 588, 590, 595-596, 603, 605, 795-796, 803, 885, 1035, 1156, 1192, 1568, 1579, 1636, 1844, 1972, 2009, 2011-2012, 2028, 2037, 2193, 2596, 2687, 3441-3442, 3449, 3462, 3718
Viola tricolor 1612
Viscaceae 1859
Viscum album 185
Viscum monoicum 764
Vitis labrusca 1086
Vossia cuspidata 166
Vulpia 58, 2078
Walnuts 409
Watermelons 382, 1118
Wedelia paludosa 968
Weeds
bioassays 1372
biology 1029, 3654
anatomy 140, 726, 1058, 1398, 1793, 1847-1853, 2157, 2214, 2543, 2825-2826, 3658-3659
breeding 3290
composition 144, 153, 272, 498, 793, 1031, 1069, 1368, 1398-1399, 1404, 1787, 1801, 2128, 2149, 2224, 2466, 2553, 2787, 3053, 3292, 3328, 3602-3604, 3617, 3667
alkaloids 3599
cytology 270, 726, 1058, 1850, 1857, 2263, 2788-2789, 3050, 3656
development 1181, 1345, 1773, 1849, 1852, 2217, 2828, 2873, 3625, 3658
dormancy 2483, 3621
evolution 2263
fertilization 124
flowering 452, 1002, 1007, 1056, 1369-1378, 1435-1436, 1459-1460, 1465-1466, 1883, 2138, 2141, 2156, 2217, 2776, 2828
flowers 1405
genetics 124, 1181, 1783, 1854, 2263, 2272, 2541, 2566, 3050-3051
genotypes 1399, 1768, 1786, 1790, 2541, 3052
germination 464
growth rate 133, 454, 731, 1019, 1803, 3310

Weeds *cont.*
biology *cont.*
identification 142, 459, 765, 1395, 1777, 1795, 1827, 1832, 3289, 3799
leaves 136, 142, 152, 765, 1437, 1850, 2161, 2562, 2784, 3321, 3602, 3634
life cycle 725
morphology 726, 1379, 1394, 1397, 1400-1401, 1783, 1785, 1789, 1853, 2486, 2823, 3276
mycorrhizas 2162, 2497
nitrogen fixation 1402
nutrient uptake 466
organogenesis 3730
phenology 128, 441
phenotypes 1399, 2272, 3292
photoperiod 452, 1002, 1369-1370, 1372-1375, 1377, 2217, 2828, 3320
photosynthesis 144, 182, 726, 1058, 1437, 1441, 2218, 2553, 3656, 3660-3661
physiology 144, 454, 1019, 1058-1059, 1069, 1111, 1368, 1374-1375, 1404, 1434-1435, 1438-1439, 1441, 1444, 1459, 1465, 1802, 1854, 1857, 1883, 2217, 2546-2547, 2553, 2784, 2789, 2828, 2875, 2878, 3052, 3131, 3294, 3310, 3319-3321, 3429, 3602, 3660-3661
pollen 2150, 3185
pollination 124, 142, 1781, 2214, 2776
respiration 3660
rhizomes 1803
roots 1013, 1373, 1444, 1803, 2483, 2542, 2826, 3621, 3634
sex differentiation 2548
shoots 1371, 1373, 1773, 1803, 2784
stomata 152, 1443, 1857, 2546-2547, 2788, 2830-2831
taxonomy 140, 455, 459, 729, 1026, 1382, 1393-1397, 1400-1401, 1777, 1782-1784, 1787, 1791-1794, 1797, 2149-2150, 2153-2155, 2160-2161, 2191, 2490, 2791, 3289, 3629-3630
tubers 450, 2784
ultrastructure 2150, 2213, 2827, 3656, 3658
vegetative propagation 1013, 1018, 3437
water relations 152, 1111
control 3536
biological control 195, 252, 273, 508, 579, 1097, 1343, 1610, 2353, 2562, 2566, 2855, 2868, 2873, 3351, 3420, 3426, 3432, 3695, 3794
animals 698, 769, 1530, 3709
birds 197
economics 3081, 3099, 3180
fungi 201, 779, 784, 895, 1099-1100, 1102, 1446, 1452, 1870-1871, 1877, 2854, 2856, 2858, 2860, 3094-3095, 3103, 3112, 3114, 3682-3685, 3687-3690, 3693-3694
grazing 2851
herbivorous fish 99, 420-421, 427, 2453, 2757-2759, 3270, 3584-3586
insects 198, 202, 509-510, 773, 777, 790, 938, 971, 1085, 1092-1093, 1095, 1100-1101, 1178, 1456, 1530, 1868, 1874-1875, 2244, 2248-2249, 2252, 2565, 2849, 2858, 2861, 2866-2867, 2871-2872, 2947, 3086, 3089-3092, 3100-3110, 3112-3113, 3115, 3117-3118, 3343, 3349, 3352, 3354, 3356, 3418, 3674, 3677-3679, 3691,

Weeds *cont.*
control *cont.*
biological control *cont.*
insects *cont.*
3705, 3707-3708, 3710, 3713-3715
nematodes 787, 1092
pathogens 2564, 3680, 3691, 3694
reviews 1094, 2857, 3082-3084, 3350, 3675, 3704
viruses 1457, 1876
chemical control 864, 876, 1343, 1717, 1795, 2255, 2906, 3420, 3428, 3432, 3535
alachlor 2620, 3504
ametryn 2039
atrazine 2039
bentazone 989
bromofenoxim 592, 989
bromoxynil 592, 2039
chlorotoluron 592
clopyralid 987, 989
2,4-D 711, 931, 988, 1100, 2039, 3235
dazomet 504
2,4-DB 989
dicamba 592, 711, 931, 988-989, 2077
dichlorprop 989
diphenamid 367
EPTC 2039
fluchloralin 2620
flurenol 592, 989
fluroxypyr 711
glyphosate 711, 988-989, 2764
MCPA 592, 987, 989
mecoprop 592, 987, 989
metolachlor 3504
nitrofen 2620
paraquat 1100
picloram 931, 988, 1274, 3235
simazine 2764, 3019
tebuthiuron 935
terbuthylazine 592
triclopyr 711
chemical vs. cultural weed control 68, 970, 1993
cultural control 1190, 1343, 1717, 3434
burning 55, 61, 100, 979, 1680, 1993, 2116, 2425, 3005, 3261, 3540, 3781
cutting 61, 105, 704, 978, 1988, 2119, 3005
direct sowing 3534
electrical control 1525, 1977, 3407
flaming 57, 3781
harrowing 3534
hoeing 68
irradiation 426
manual weed control 978, 1662, 2620, 3486
mowing 68, 773, 1662
mulching 68, 75, 366-367, 692, 961, 2493, 2674
ploughing 55, 61, 591, 2014, 2180, 2666, 3534-3535
ripping 1330
rolling 1719
rotary cultivation 100, 3005, 3534
direct sowing 3236
economics 1530, 2955, 3785
herbicide application
physiology 1906, 3121
resistance 23, 2582, 3132
integrated control 1, 102, 713, 783, 864, 1489, 1610, 2017, 2649, 3434
management 102, 423, 730, 1713, 1754, 2013, 2353-2354, 3432, 3434
burning 3260
cover crops 75, 979, 1340
cropping systems 173, 591, 1186, 1188, 2528, 2995, 3222
cutting 1654
drainage 173, 579

Weeds *cont.*
control *cont.*
management *cont.*
fertilizers 579, 1680, 2079, 3486, 3532
grazing 56, 77, 100, 938, 1654, 1659, 2416, 2725, 2770, 3238, 3540
ground cover 158, 1178
irrigation 579, 2180, 2530
rotations 579, 864, 1846, 2015, 2666, 3199
row spacing 624, 3643
seedbed preparation 579, 3309
shading 422, 473, 970, 2420, 3065
site preparation 2114, 3257
minimum tillage 2180, 2525, 3308, 3535
no-tillage 2180, 3308, 3432
non-crop weed control 2955-2956
amenity and recreation areas 3596, 3631
canals 99, 104, 172, 420-421, 2753, 3065, 3631
ditches 3065
drainage channels 96, 99, 416, 418-419, 2456, 2750, 2757, 3065
firebreaks 1743
industrial sites 114
irrigation systems 98-99, 421, 2754, 2757
lakes 100, 3631
ponds 197, 2754
power lines 714, 2451
railways 111, 114
reservoirs 368
rights-of-way 112, 263, 714, 838, 2451, 2464-2465
rivers 2527
roadsides 2527
shelterbelts 654
streams 97, 704
waterways 172, 368, 3631
organization of work 260-261, 1190
solarization 2563
ecology
air pollution 149-150, 1836
allelopathy 745, 1041-1042, 1044, 1107-1109, 1112, 1145, 1175, 1419, 2178
biotypes 495, 1842, 1844, 1846, 3131
climate 1387, 1820, 2185, 2503, 3294
colonizing ability 167, 177, 487, 491, 2491, 2525, 2527, 2541, 3426
competition 154-155, 157, 160, 467, 472-473, 606, 742, 1039, 1403, 1415, 1611, 1722, 1806, 1818-1819, 1842, 1844, 2077, 2162, 2527, 2801, 2803, 2805, 3059, 3299, 3305-3306, 3653
distribution 165-166, 171, 175, 441, 488, 490-491, 729, 749, 757, 759, 765, 971, 1024, 1379, 1386, 1394, 1788, 1831, 1838, 1840, 2145, 2161, 2180, 2209, 2540, 2791, 2823, 3062-3063, 3068, 3311-3312, 3314, 3653
drought 465
ecotypes 140, 1024, 1431, 1843, 2582, 3634
eutrophication 153, 422
evapotranspiration 2503
fertilizers 932, 1422, 2502
habitats 168, 441, 730, 759, 1386, 1404, 2490, 2522, 2540, 3292, 3310
identification 1788
light 1804, 1842, 2163, 2493, 2500, 2540, 3052, 3299, 3310, 3429, 3634
metal tolerance 2553, 3635-3636
metals 733
minerals 422, 488, 2797, 3636
mycorrhizas 2178
nodulation 3305
nutrient content 3348

Weeds *cont.*
ecology *cont.*
nutrient removal 1178, 2164, 2504, 3305
nutrient uptake 488, 1031, 1403, 1406, 1862, 2164, 2498-2499, 2797, 2799, 2996, 3067, 3634, 3636
origin 2790
phenology 765-766, 3049
population decrease 1549
population dynamics 18, 2180, 2528, 2666, 3437, 3634
salinity 173-174, 1421
soils 173, 490, 1179, 1421, 2184-2185, 2526, 2818, 3294, 3311, 3636
fertility 465
water relations 1323
spread 175, 491, 601, 757, 971, 2077, 2184, 2207, 2491-2492, 2522-2524, 2823, 3653-3654
succession 167, 629, 2205, 3313
synecology 478-481, 746-748, 2535
temperature 1002, 2500, 2784, 2799, 3052, 3280, 3294
water composition and quality 153, 180, 422, 487, 1345, 1799, 1801, 3053, 3297
water relations 148, 166, 168, 172, 174, 490, 1178, 1825, 2163, 2501, 2503, 2530, 3292, 3294
water stress 465, 3054, 3066, 3294
weed associations 478-481, 746-748, 1403, 2526
history 3654
hosts of plant diseases 188, 505, 772, 1020, 1082, 1445-1446, 1713, 1863-1864, 2227, 2229, 3329-3330, 3695
hosts of plant pests 190-194, 351, 773-775, 1020, 1085, 1088, 1091, 1447, 1866, 2232, 2235, 2240, 2244, 2252, 2557-2558, 2843-2844, 3075, 3077, 3240, 3258, 3331-3332, 3335, 3338, 3340, 3342, 3346-3347, 3352, 3670-3671, 3678
insect pests 766-770
plant diseases 624, 772, 2555
plant pests 1089-1090, 2242
seedling growth 2552
seeds
alkaloids 440, 3282
buried seeds 2479, 3042, 3046-3047, 3313
climate 2777
contamination 129, 2782, 3007, 3278, 3288
depth of burial 127, 1363, 2169, 2470, 2777, 2779, 2794, 3607, 3611
dormancy 127, 129, 1007, 1357, 2169, 2533, 2777, 2779, 3283, 3611
fatty acids 3283
germination 129, 155, 766, 806, 886, 1018, 1357, 2532, 2777, 2779-2780, 3044, 3046, 3131, 3607
flooding 1006
inhibitors 186, 2520
light 443, 718, 1314, 1760, 2129, 2169, 2476, 2478, 2533, 2551, 2794
moisture 719, 2129, 2476-2477
pH 3045
salinity 3045
stimulants 201, 526, 1882, 2130, 2775, 3648
temperature 125, 127, 443, 445, 1004, 1007, 1314, 1762, 1764, 2129-2130, 2169, 2476, 2478, 2533, 2551, 2794, 3045
growth regulators 2779
irradiation 1977, 3283
lipids 3283
longevity 1363, 2533

Weeds *cont.*
seeds *cont.*
population 886, 1014, 1357, 1363-1364, 2181, 2207, 2372, 3046, 3102, 3308
production 128, 154, 1007, 1013, 1037, 1357, 1680, 1814, 2525, 2532, 3089, 3117, 3437, 3624, 3654
salinity 2794
sampling 446
scarification 2169
seed dispersal 1070, 2170, 3041, 3046, 3615
size 1768
soils 1364, 3308
spread 719
storage 127, 2780
structure 1060, 2820
survival 3042
vernalization 452
viability 1009, 1018, 1977, 2130, 2470, 2532-2533, 2777
utilization 102, 265, 268, 843-846, 848, 1171, 1531-1535, 1994-1995, 2164, 2342, 2535, 2812, 3181, 3183, 3415-3416, 3709, 3788

Wheat
bioassays 744, 1973, 2928, 3147
herbicide application 1547
breeding for herbicide resistance 298, 2584, 3368, 3736
climate 1204
cold resistance 2026
compatibility 607, 1199
damage 13, 548, 779, 812, 880, 1194-1197, 1204, 1517, 1576, 2351, 2606, 3433
deformities 604, 3201
direct sowing 3452, 3459
diseases 1193-1194, 1574, 1576
economics 1556
germination 301-302
growth 2569
growth stages 470
interactions 19, 2329
irrigation 3200
microorganisms 779
mycorrhizas 1156
no-tillage 2647
nutrient uptake 3119, 3202
physiology 206, 222, 287, 527-528, 779, 798-799, 812, 1106, 1120, 1135, 1203, 1478, 1879, 2260, 2570, 2593, 2893-2894, 2902, 2967-2968, 3119, 3122, 3139, 3736
proteins 879, 2359, 3119
quality 297, 879
rain 2623, 2942, 3200
residual effects 548, 875, 886, 1195, 1585, 2016, 2351, 2599, 2987
residues 1517
safeners 287, 2009-2010
selectivity 2010, 2646, 3449
soil fertility 3450
soil mesofauna 2298
soils 299, 2606, 3399
spray retention 2623, 2942
susceptibility 283, 875, 1972, 2329, 2659
tolerance 9, 303, 618, 817, 1513, 2011, 2260, 2660, 2664, 3725, 3736
varietal susceptibility 8, 13, 15, 470, 602, 876, 1201, 1576, 2029, 2664, 3201, 3458, 3460, 3725
yields 13, 21, 290, 302, 470, 602, 1193, 1196-1197, 1202-1205, 1557, 1563, 1570, 1576, 2351, 2359, 2364-2365, 2599, 2654, 2664, 3447-3448, 3450, 3454, 3458-3459
weed control 2361
chemical control 8, 18, 275, 288-289, 597, 601, 861, 876, 1200, 1556, 1566, 1571-1572, 2647, 2659, 3440, 3448, 3457-3458
alachlor 897
atrazine 1156, 1523, 2657, 3205
barban 1000

Wheat *cont.*
weed control *cont.*
chemical control *cont.*
benazolin 878
bensulide 897
benzoylprop-ethyl 1575
bifenox 300, 596, 878
bromofenoxim 592
bromoxynil 7, 19, 296, 300, 592, 878, 1557, 1560, 1567, 1569, 1573, 2031
butachlor 1561
carbetamide 3029
chloridazon 1156
chlorotoluron 12, 16, 592, 596, 603, 1201, 1554, 1575, 2030, 2360, 3029, 3173
chlorsulfuron 155, 603, 739, 1197, 1567, 1619, 2029-2031, 3029
clofop 7
clopyralid 1557, 1567, 2662
cyanazine 12
2,4-D 17, 295-296, 300, 600, 604, 606-607, 877, 881, 1199, 1565, 1567, 1573, 2020, 2031, 2363, 2366, 2656, 2661-2662, 2967, 3195, 3456
2,4-DB 3456
dicamba 295-296, 300, 592, 1567, 1573, 2020, 2031, 2656, 3195
dichlorprop 3447
diclofop 881, 1000, 1560, 1575, 2360, 3029, 3453
diclofop-methyl 3204
difenzoquat 593, 1575, 3454
diflufenican 1568, 2009
dinoseb 300
dinoterb 14
diquat 3459
flamprop 1575, 3203, 3454
fluchloralin 2366
flurenol 592
flurochloridone 20, 300, 1567
fluroxypyr 878, 1567, 2029, 2662
glufosinate 3459
glyphosate 295, 2655, 3205, 3452, 3459
ioxynil 7, 19, 604, 878
isoproturon 6, 14, 19, 594, 603, 1568, 1575, 2030, 2362-2363, 2366, 3029, 3455
isoxaben 595, 1554, 1567, 2024
linuron 12, 20, 594-595, 3029, 3195, 3453
MCPA 300, 592, 600, 1557, 1560, 1567, 1573, 2020, 2030-2031, 2662, 3195, 3204, 3456
mecoprop 7, 592, 878, 1567, 2029-2030, 3447
methabenzthiazuron 14, 17, 594, 1156, 1561, 1569, 2030, 2363, 2366, 3029, 3455
metolachlor 897
metoxuron 17, 155, 1201, 1575, 2029, 2362-2363, 2366, 3029, 3455
metribuzin 300, 1564, 2657, 2663
metsulfuron 1558
molinate 2020
monolinuron 12
neburon 20
nitrofen 2661
oxyfluorfen 2967
pendimethalin 6, 12, 17, 300, 3029
picloram 606, 2662
prometryn 3195
propanil 2020
propyzamide 3029
pyridate 300
simazine 877, 3195
2,3,6-TBA 606
terbuthylazine 592
terbutryn 594, 2362-2363, 3029
Wheat *cont.*
weed control *cont.*
chemical control *cont.*
tri-allate 594, 1000, 1559, 3029, 3454
triasulfuron 1573
trifluralin 12, 594-595, 3029
chemical vs. cultural weed control 3029
cultural control 7, 17-18, 601
burning 3029
cultivation 4, 1206, 1584, 2020, 3204
direct sowing 3029
hoeing 1561, 2661, 3204
manual weed control 16, 1207, 2363, 2661, 2967, 3204
ploughing 1200, 1584, 2025, 2028, 2653, 3029, 3204
rotary cultivation 1584, 2025, 3204
economics 1170, 1630, 2967, 3179, 3439
energy requirements 2027
integrated control 2649, 2967
management 601
cropping systems 1000
fallow systems 1000
fertilizers 605, 1206
rotations 605, 1565, 3199
minimum tillage 2028, 2655, 3198, 3200
no-tillage 1523, 2814, 2965, 3200, 3205, 3458
recommendations 1198, 1575
reviews 598
surveys 3436
weeds 3310
allelopathy 3061
competition 4, 154-155, 271, 467-470, 599, 605-606, 737-739, 1033, 1566, 1748, 1805, 1807-1809, 1844, 2029, 2168, 2352, 2508, 3203, 3298, 3307
contamination 737-738
crop losses 737-738, 1566, 2352
distribution 18, 601, 750-751, 1422, 1841, 2193, 2197, 2529, 3063
hosts of plant diseases 2556
hosts of plant pests 2235
seeds 1000, 1837, 2135, 3047-3048
surveys 1049, 1805, 2183, 2187, 2193-2196, 3650
yields 4, 154-155, 271, 468, 605-606, 737, 739, 1807-1808, 1826, 2019, 2024, 2168, 2190
Wheat (weed) 894, 1669, 2085, 2653
Wolffia 1402
Wolffiella hyalina 3072
Woody weeds 56, 77, 86, 88-90, 94-95, 112, 790, 935-936, 975, 978-979, 984, 1174, 1331, 1334, 1339, 1343-1344, 1724-1726, 1728, 1734, 2179, 2644, 2724-2725, 3086, 3102, 3191, 3238, 3260, 3540, 3707, 3714
Xanthium 118, 1543, 2035, 2122
Xanthium echinatum 2495
Xanthium esculentum 792
Xanthium italicum 1603
Xanthium occidentale 2502
Xanthium pensylvanicum
biology
physiology 735
ultrastructure 3657
control
biological control, fungi 2853
chemical control, imazaquin 1238
ecology, competition 2802, 3186
seeds
germination
inhibitors 2473-2475
light 995, 2877
temperature 2473-2474
growth regulators 2473-2475, 2877
respiration 2473-2475
Xanthium pungens 2947
Xanthium spinosum 3288
Xanthium strumarium 333-335, 340, 342-343, 572, 866, 903, 1023, 1030, 1232, 1235, 2105, 2509, 2511, 2692, 2801, 2990, 3113, 3171, 3320, 3507
Xanthosoma jacquini 2118
Yams 50
Yucca aloifolia 1303
Yugoslavia
flora 137, 2145, 2147, 2188, 2815
herbicides, statistics 2339
weed control
biological control 2246
economics 2338, 2340
Zaire, flora 2526
Zannichellia palustris 421, 1832, 3651
Zigadenus 441
Zinnia 3561
Zinnia pumila 1685
Zizania caduciflora 3669
Ziziphus mauritiana 3570
Zoysia 1315
Zoysia japonica 656, 1306
Zygadenus paniculatus 2127
Zygophyllum simplex 3181

List of common names and abbreviations employed for currently used herbicides and plant growth regulators in *Weed Abstracts*

An asterisk (*) signifies approval by the International Organization for Standardization (ISO)
A dagger (†) signifies approval by the British Standards Institution (BSI)
A plus (+) signifies approval by the Weed Science Society of America (WSSA) or ANSI

acifluorfen†+*	5-(2-chloro-4-trifluoromethylphenoxy)-2-nitrobenzoic acid
aclonifen†	2-chloro-6-nitro-3-phenoxyaniline
acrolein	acrylaldehyde
alachlor†+*	α-chloro-2′,6′-diethyl-*N*-(methoxymethyl)acetanilide
allidochlor†*	*N*,*N*-dially-2-chloroacetamide
alloxydim†	2-[1-(*N*-allyloxyamino)butylidene]-4-methoxycarbonyl-5,5-dimethylcyclohexane-1,3-dione
alorac†*	(*Z*)-2,3,5,5,5-pentachloro-4-oxopent-2-enoic acid
ametridione†	1-amino-6-ethylthio-3-neopentyl-1,3,5-triazine-2,4-dione
ametryn†*	4-ethylamino-6-isopropylamino-2-methylthio-1,3,5-triazine
amibuzin†	6-*tert*-butyl-3-dimethylamino-4-methyl-1,2,4-triazin-5(4*H*)-one
amitrole+*†	3-amino-1,2,4-triazole
amiprofos-methyl†*	*O*-methyl *O*-(4-methyl-2-nitrophenyl)*N*-isopropylphosphoramidothioate
ammonium sulphamate*	ammonium sulphamate
ancymidol†*	α-cyclopropyl-4-methoxy-α-pyrimidin-5-ylbenzyl alcohol
anilofos†	*S*-4-chloro-*N*-isopropylcarbaniloylmethyl *O*,*O*-dimethyl phosphorodithioate
asulam†+*	methyl(4-aminobenzenesulphonyl)carbamate
atraton†+*	4-ethylamino-6-isopropylamino-2-methoxy-1,3,5-triazine
atrazine†+*	2-chloro-4-ethylamino-6-isopropylamino-1,3,5-triazine
aziprotryne†*	2-azido-4-isopropylamino-6-methylthio-1,3,5-triazine
barban†+*	4-chlorobut-2-ynyl-*N*-(3-chlorophenyl)carbamate
benazolin†*	4-chloro-2-oxobenzothiazolin-3-ylacetic acid
benfluralin†*	*N*-butyl-*N*-ethyl-2,6-dinitro-4-trifluoromethylaniline
benfuresate†	2,3-dihydro-3,3-dimethylbenzofuran-5-yl ethanesulphonate
bensulfuron†*	α-(4,6-dimethoxypyrimidin-2-ylcarbamoylsulphamoyl)-*o*-toluic acid
bensulide†+*	*O*,*O*-di-isopropyl *S*-2-benzenesulphonamidoethyl phosphorodithioate
bentazone†*	3-isopropyl-2,1,3-benzothiadiazin-4-one 2,2-dioxide
benzadox†+	benzamido-oxyacetic acid
benzipram†	*N*-benzyl-*N*-isopropyl-3,5-dimethylbenzamide
benzofenap†	2-[4-(2,4-dichloro-*m*-toluoyl)-1,3-dimethylpyrazol-5-yloxy]-4′-methylacetophenone
benzoylprop-ethyl†*	ethyl *N*-benzoyl-*N*-(3,4-dichlorophenyl)-2-aminopropionate
benzthiazuron†*	*N*-(benzothiazol-2-yl)-*N*-methylurea
bifenox+*	methyl 5-(2,4-dichlorophenoxy)-2-nitrobenzoate
bilanafos†	4-[hydroxy(methyl)phosphinoyl]-L-homoalanyl-L-alanyl-L-alanine
bromacil†+*	5-bromo-6-methyl-3-(1-methyl-n-propyl)uracil
bromobutide†	(*RS*)-2-bromo-*N*-(α,α-dimethylbenzyl)-3,3-dimethylbutyramide
bromofenoxim†*	3,5-dibromo-4-hydroxybenzaldehyde 2,4-dinitrophenyloxime
bromoxynil†+*	3,5-dibromo-4-hydroxybenzonitrile
buminafos†	dibutyl 1-butylaminocyclohexylphosphonate
butachlor†+	*N*-(butoxymethyl)-α-chloro-2,6-diethylacetanilide
butamifos†*	*O*-ethyl *O*-(5-methyl-2-nitrophenyl) *N*-s-butylphosphoramidothioate
buthidazole†+*	4-hydroxy-1-methyl-3-(2-t-butyl-1,3,4-thiadiazol-5-yl)imidazolidin-2-one
buthiuron†*	*N*′-(5-butylsulphonyl-1,3,4-thiadiazol-2-yl)-*N*,*N*′-dimethylurea
butralin†+*	*N*-s-butyl-4-t-butyl-2,6-dinitroaniline
buturon†+*	*N*′-(4-chlorophenyl)-*N*-(1-methylprop-2-ynyl)-*N*-methylurea
butylate†+*	*S*-ethyl *N*,*N*-di-isobutyl(thiocarbamate)
cambendichlor†+*	2,2′-(phenylimino)diethylene bis(3,6-dichloro-2-methoxybenzoic acid)
carbetamide†+*	D-*N*-ethyl-2-(phenylcarbamoyloxy)propionamide
chlomethoxyfen†	5-(2,4-dichlorophenoxy)-2-nitroanisole
chloramben†+*	3-amino-2,5-dichlorobenzoic acid

chloranocryl†*	*N*-)3,4-dichlorophenyl)methacrylamide
chlorazifop†	2-(4-(3,5-dichloro-2-pyridyloxy)phenoxy)propionic acid
chlorbromuron†+*	*N'*-(4-bromo-3-chlorophenyl)-*N*-methoxy-*N*-methylurea
chlorbufam†*	1-methylprop-2-ynyl *N*-(3-chlorophenyl)carbamate
chloreturon†*	*N'*-(3-chloro-4-ethoxyphenyl)-*N,N*-dimethylurea
chlorfenac†*	2,3,6-trichlorophenylacetic acid
chlorfenprop-methyl†*	methyl 2-chloro-3-(4-chlorophenyl)propionate
chlorflurenol*	2-chloro-9-hydroxyfluorene-9-carboxylic acid
chlorfluren†*	2-chlorofluorene-9-carboxylic acid
chloridazon†*	5-amino-4-chloro-2-phenylpyridazin-3(2*H*)-one
chlorimuron†	2-(4-chloro-6-methoxypyrimidin-2-ylcarbamoylsulphamoyl)benzoic acid
chlormequat†*	2-chloroethyltrimethylammonium chloride
chlornitrofen†*	4-nitrophenyl 2,4,6-trichlorophenyl ether
chlorotoluron†*	*N'*-(3-chloro-4-methylphenyl)-*N,N*-dimethylurea
chloroxuron†+*	*N*-4-(4-chlorophenoxy)phenyl-*N,N*-dimethylurea
chlorphonium†*	tributyl-2,4-dichlorobenzylphosphonium
chlorpropham†+*	isopropyl *N*-(3-chlorophenyl)carbamate
chlorsulfuron†+	*N'*-(2-chlorobenzenesulphonyl)-*N*-(4-methoxy-6-methyl-1,3,5-triazin-1-yl)urea
chlorthal-dimethyl†*	dimethyl 2,3,5,6-tetrachloroterephthalate
chlorthiamid†*	2,6-dichlorothiobenzamide
cinmethylin†	(1*R*,2*S*,4*S*)-1,4-epoxy-*p*-menth-2-yl 2-methylbenzyl ether
cisanilide+	2,5-dimethyl-1-pyrrolidinecarboxanilide
cliodinate†	2-chloro-3,5-di-iodo-4-pyridyl acetate
clomeprop	(*RS*)-2-(2,4-dichloro-*m*-tolyloxy)propionanilide
cloprop†*	2-(3-chlorophenoxy)propionic acid
cloproxydim†	(±)-2-[1-(3-chloroallyloxyimino)butyl]-5-(2-ethylthiopropyl-3-hydroxycyclohex-2-enone
clopyralid†	3,6-dichloropyridine-2-carboxylic acid
4-CPA†+*	4-chlorophenoxyacetic acid
cyanatryn†*	4-(1-cyano-1-methylethylamino)-6-ethylamino-2-methylthio-1,3,5-triazine
cyanazine†+*	2-chloro-4-(1-cyano-1-methylethylamino)-6-ethylamino-1,3,5-triazine
cycloate†+*	*S*-ethyl *N*-cyclohexyl-*N*-ethyl-(thiocarbamate)
cycloxydim	(*RS*)-2-[1-(ethoxyimino)butyl]-3-hydroxy-5-thian-3-ylcyclohex-2-enone
cycluron†+*	*N'*-cyclo-octyl-*N,N*-dimethylurea
cyometrinil†	(*Z*)-α-(cyanomethoxyimino)benzeneacetonitrile
cyperquat†+*	1-methyl-4-phenylpyridinium
cyprazine†+*	2-chloro-4-cyclopropylamino-6-isopropylamino-1,3,5-triazine
cyprazole†+*	*N*-[5-(2-chloro-1,1-dimethylethyl)-1,3,4-thiadiazol-2-yl]cyclopropanecarboxamide
cypromid†+*	3,4-dichlorocyclopropanecarboxanilide
2,4-D†+*	2,4-dichlorophenoxyacetic acid
daimuron†	1-(1-methyl-1-phenylethyl)-3-*p*-tolylurea
dalapon†+	2,2-dichloropropionic acid
daminozide†*	*N*-dimethylaminosuccinamic acid
dazomet†+*	3,4,5,6-tetrahydro-3,5-dimethyl-1,3,5-thiadiazine-2-thione
2,4-DB†+	4-(2,4-dichlorophenoxy)butyric acid
delachlor†+*	α-chloro-*N*-(isobutoxymethyl)-2′,6′-acetxylidide
desmedipham†+*	3-(ethoxycarbonylamino)phenyl *N*-phenylcarbamate
desmetryn†*	4-isopropylamino-6-methylamino-2-methylthio-1,3,5-triazine
di-allate†*	*S*-2,3-dichloroallyl *N,N*-di-isopropyl(thiocarbamate)
dicamba†+*	3,6-dichloro-2-methoxybenzoic acid
dichlobenil†+*	2,6-dichlorobenzonitrile
dichlone†+*	2,3-dichloro-1,4-naphthoquinone
dichloralurea*	dichloral urea
dichlorflurenol†*	2,7-dichloro-9-hydroxyfluorene-9-carboxylic acid
dichlormate†+*	3,4-dichlorobenzyl *N*-methylcarbamate
dichlorprop†+*	(±)-2-(2,4-dichlorophenoxy)propionic acid
diclofop†*	2-[4-(2,4-dichlorophenoxy)phenoxy]propionic acid
diethamquat†*	1,1′-di(diethylcarbamoylmethyl)-4,4′-bipyridyl-1,1′-diylium
diethatyl†+*	*N*-chloroacetyl-*N*-(2,6-diethylphenyl)aminoacetic acid
difenopenten†*	4-[4-(4-trifluoromethylphenoxy]pent-2-enoic acid
difenoxuron†+*	*N'*-4(4-methoxyphenoxy)-*N,N*-dimethylurea
difenzoquat†+*	1,2-dimethyl-3,5-diphenylpyrazolium
diflufenican†*	2′,4′-difluoro-2-(α,α,α-trifluoro-*m*-tolyloxy)nicotinanilide
dikegulac†*	2,3:4,6-di-*O*-isopropylidene-α-L-xylo-2-hexulofuranosonic acid
dimefuron†*	4-[2-chloro-4-(3,3-dimethylureido)phenyl]-2-t-butyl-1,3,4-oxadiazolin-5-one
dimepiperate†	*S*-1-methyl-1-phenylethyl piperidine-1-carbothioate

dimethachlor†*	α-chloro-*N*-(2-methoxyethyl)-2′,6′-acetxylidide
dimethametryn†*	2-(1,2-dimethylpropylamino)-4-ethylamino-6-methylthio-1,3,5-triazine
dimexano†*	*O,O*-diethyl dithiobis(thioformate)
dimidazon†*	4,5-dimethoxy-2-phenylpyridazin-3(2*H*)-one
dinitramine†+*	N^1,N^1-diethyl-2,6-dinitro-4-trifluoromethyl-*m*-phenylenediamine
dinoseb†*	2-(1-methylpropyl)-4,6-dinitrophenol
dinoterb†*	4,6-dinitro-2-t-butylphenol
diphenamid†+*	*N,N*-dimethyl-α,α-diphenylacetamide
dipropetryn†+*	2-ethylthio-4,6-di(isopropylamino)-1,3,5-triazine
diquat†+*	9,10-dihydro-8a,10a-diazoniaphenanthrene
disul*	2-(2,4-dichlorophenoxy)ethyl hydrogen sulphate
diuron†+*	*N*′-(3,4-dichlorophenyl)-*N,N*-dimethylurea
DNOC†+*	2-methyl-4,6-dinitrophenol
DSMA+	disodium methylarsonate
eglinazine†*	*N*-(4-chloro-6-ethylamino-1,3,5-triazin-2-yl)aminoacetic acid
endothal†	7-oxabicyclo[2,2,1]heptane-2,3-dicarboxylic acid
epronaz†*	1-(*N*-ethyl-*N*-propylcarbamoyl)-3-propylsulphonyl-1,2,4-triazole
EPTC†+*	*S*-ethyl *N,N*-dipropyl(thiocarbamate)
erbon+*	2-(2,4,5-trichlorophenoxy)ethyl 2,2-dichloropropionate
esprocarb†*	*S*-benzyl 1,2-dimethylpropyl(ethyl)thiocarbamate
etacelasil†*	2-chloroethyltri-(2-methoxyethoxy)silane
ethalfluralin†+*	*N*-ethyl-*N*-(2-methylallyl)-2,6-dinitro-4-trifluoromethylanilline
ethephon+	2-chloroethylphosphonic acid
ethidimuron†*	*N*′-(5-ethylsulphonyl-1,3,4-thiadiazol-2-yl)-*N,N*′-dimethylurea
ethiolate†+*	*S*-ethyl diethylthiocarbamate
ethofumesate†+*	2-ethoxy-2,3-dihydro-3,3-dimethylbenzofuran-5-yl methylsulphonate
etnipromid†	(±)-2-[5-(2,4-dichlorophenoxy)-2-nitrophenoxyl]-*N*-ethylpropionamide
fenasulam†	methyl 4-[2-(4-chloro-*o*-tolyloxy)acetamido]phenylsulphonylcarbamate
fenclorim†	4,6-dichloro-2-phenylpyrimidine
fenoprop†*	(±)-2-(2,4,5-trichlorophenoxy)propionic acid
fenoxaprop†	(*RS*)-2-[4-(6-chloro-1,3-benzoxazol-2-yloxy)phenoxyl]propionic acid
fenridazon†	1-(4-chlorophenyl)-1,4-dihydro-6-methyl-4-oxopyridazine-3-carboxylic acid
fenteracol†*	2-(2,4,5-trichlorophenoxy)ethanol
fenthiaprop†	(*RS*)-2-[4-(6-chloro-1,3-benzothiazol-2-yloxy)phenoxy]propionic acid
fenuron†+*	*N,N*-dimethyl-*N*′-phenylurea
flamprop†*	(±)-2-(*N*-benzoyl-3-chloro-4-fluoroanilino)propionic acid
fluazifop†	(±)-2-[4-(5-trifluoromethyl-2-pyridyloxy)phenoxy]propionic acid
fluchloralin†+*	*N*-(2-chloroethyl)-2,6-dinitro-*N*-propyl-4-(trifluoromethyl)aniline
flufenican†	2-(α,α,α-trifluoro-*m*-tolyloxy)nicotinanilide
fluometuron†+*	*N*′-(3-trifluoromethylphenyl)-*N,N*-dimethylurea
fluoridamid†*	3-trifluoromethylsulphonamidoacet-*p*-toluidide
fluorodifen†+*	4-nitrophenyl 2-nitro-4-trifluoromethylphenyl ether
fluoroglycofen†*	[5-(2-chloro-α,α,α-trifluoro-*p*-tolyloxy)-2-nitrobenzoyloxy]acetic acid
fluoromidine†*	6-chloro-2-trifluoromethyl-3*H*-imidazo[4,5-*b*]pyridine
fluoronitrofen†*	2,4-dichloro-6-fluorophenyl 4-nitrophenyl ether
fluothiuron†*	*N*-(3-chloro-4-chlorodifluoromethylthiophenyl)-*N*′,*N*′-dimethylurea
flupropanate†	2,2,3,3-tetrafluoropropionic acid
flurenol†*	9-hydroxyfluorene-9-carboxylic acid
fluridone†+*	1-methyl-3-phenyl-5-(3-trifluoromethylphenyl)pyridin-4-one
flurochloridone†*	(3RS,4RS;3RS,4SR)-3-chloro-4-chloromethyl-1-(α,α,α-trifluoro-*m*-tolyl)-2-pyrrolidone
fluroxypyr†	4-amino-3,4-dichloro-6-fluoro-2-pyridyloxyacetic acid
fomesafen†	2-chloro-4-trifluoromethylphenyl 3-methylphenylcarbamoyl-4-nitrophenyl ether
fosamine†+*	ethyl hydrogen carbamoylphosphonate
furyloxyfen†*	(±)-5-(2-chloro-α,α,α-trifluoro-*p*-tolyloxy)-2-nitrophenyl tetrahydro-3-furyl ether
gibberellic acid*	GA
glufosinate†	DL-homoalanin-4-yl(methyl)phosphinic acid
glyphosate†+*	*N*-(phosphonomethyl)glycine
glyphosine†*	*N,N*-bis(phosphonomethyl)glycine
halosafen†*	5-(2-chloro-α,α,α,6-tetrafluoro-*p*-tolyloxy)-*N*-ethylsulphonyl-2-nitrobenzamide
haloxydine†*	3,5-dichloro-2,6-difluoro-4-hydroxypyridine

haloxyfop+	2-ethoxyethyl 2-[4-(3-chloro-5-trifluoromethyl-2-pyridyloxy)phenoxy]propionate
hexaflurate+	potassium hexafluoroarsenate
hexazinone†+*	3-cyclohexyl-6-dimethylamino-1-methyl-1,3,5-triazine-2,4-dione
holosulf†*	(2-chloroethyl)sulphinic acid
IAA	indolylacetic acid
IBA	indolylbutyric acid
imazapyr†	(*RS*)-2-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)nicotinic acid
imazaquin†	2-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)quinoline-3-carboxylic acid
imazethapyr	5-ethyl-2-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)nicotinic acid
ioxynil†+*	4-hydroxy-3,5-di-iodobenzonitrile
isocarbamid†*	*N*-isobutylimidazolidin-2-one-1-carboxamide
isomethiozin†*	4-(isobutylideneamino)-3-methylthio-6-t-butyl-1,2,4-triazine-5-one
isopolinate†	*S*-isopropyl perhydroazepine-1-carbothioate
isopropalin†+*	4-isopropyl-2,6-dinitro-*N,N*-dipropylaniline
isoproturon†*	*N'*-(4-isopropylphenyl)-*N,N*-dimethylurea
isopyrimol†*	4-chloro-α-isopropyl-α-(pyrimidin-5-yl)benzyl alcohol
isouron†+	*N'*-(5-butylisoxazol-3-yl)-*N,N*-dimethylurea
isoxaben†	*N*-[3-(ethyl-1-methylpropyl)isoxazol-5-yl]-2,6-dimethoxybenzamide
karbutilate†+*	*m*-(3,3-dimethylureido)phenyl t-butylcarbamate
lenacil†+*	3-cyclohexyl-6,7-dihydro-1*H*-cyclopentapyrimidine-2,4(3*H*,5*H*)-dione
linuron†+*	*N'*-(3,4-dichlorophenyl)-*N*-methoxy-*N*-methylurea
maleic hydrazide*	1,2,3,6-tetrahydro-3,6-dioxopyridazine
MAMA+	monoammonium methylarsonate
MCPA+	4-chloro-2-methylphenoxyacetic acid
MCPB†+*	4-(4-chloro-2-methylphenoxy)butyric acid
mecoprop†+*	(±)-2-(4-chloro-2-methylphenoxy)propionic acid
medinoterb†*	4,6-dinitro-5-methyl-2-t-butylphenol
mefluidide†+*	5-trifluoromethylsulphonylamino-2',4'-acetxylidide
mepiquat†+*	1,1-dimethylpiperidinium ion
metamitron†*	4-amino-3-methyl-6-phenyl-1,2,4-triazin-5(4*H*)-one
metazachlor†	α-chloro-*N*-(1-pyrazolylmethyl)acet-2',6'-xylidide
metflurazon†*	4-chloro-5-(dimethylamino)-2-(3-trifluoromethylphenyl)pyridazin-3(2*H*)-one
methabenzthiazuron†*	*N*-(benzothiazol-2-yl)-*N,N'*-dimethylurea
methalpropalin†+*	*N*-methylally-2,6-dinitro-*N*-propyl-4-trifluoromethylaniline
metham†+	*N*-methyldithiocarbamic acid
methazole+	2-(3,4-dichlorophenyl)-4-methyl-1,2,4-oxadiazolidine-3,5-dione
methiobencarb†*	*S*-(4-methoxybenzyl) *N,N*-diethylthiocarbamate
methometon†*	2-methoxy-4,6-bis(3-methoxypropylamino)-1,3,5-triazine
methoprotryne†*	4-isopropylamino-6-(3-methoxypropylamino)-2-methylthio-1,3,5-triazine
metobromuron†+*	*N'*-(4-bromophenyl)-*N*-methoxy-*N*-methylurea
metolachlor†+*	α-chloro-6-ethyl-*N*-(2-methoxy-1-methylethyl)-*o*-acetoluidide
metoxuron†*	*N'*-(3-chloro-4-methoxyphenyl)-*N,N*-dimethylurea
metribuzin†+*	4-amino-6-t-butyl-3-(methylthio)-1,2,4-triazin-5(4*H*)-one
metsulfuron†	2-[3-(4-methoxy-6-methyl-1,3,5-triazin-2-yl)ureidosulphonyl]benzoic acid
molinate†+*	*S*-ethyl*N,N*-hexamethylene(thiocarbamate)
monalide†*	*N*-(4-chlorophenyl)-2,2-dimethylvaleramide
monisouron†	1-(5-*tert*-butylisoxazol-3-yl)-3-methylurea
monolinuron†+*	*N'*-(4-chlorophenyl)-*N*-methoxy-*N*-methylurea
monuron†+*	*N'*-(4-chlorophenyl)-*N,N*-dimethylurea
morfamquat†*	1,1-bis(3,5-dimethylmorpholinocarbonylmethyl)-4,4'-bipyridylium
MSMA+	monosodium methylarsonate
NAA	1-naphthylacetic acid
napropamide†+	*N,N*-diethyl-2-(α-naphthoxy)propionamide
naptalam†+*	*N*-1-naphthylphthalamic acid
neburon†+*	*N*-butyl-*N'*-(3,4-dichlorophenyl)-*N*-methylurea
nitralin†+*	4-(methylsulphonyl)-2,6-dinitro-*N,N*-dipropylaniline
nitrofen†+*	2,4-dichlorophenyl 4-nitrophenyl ether
nitrofluorfen†+*	2-chloro-4-trifluoromethylphenyl 4-nitrophenyl ether
norflurazon†+*	4-chloro-5-methylamino-2-(3-trifluoromethylphenyl)pyridazin-3-one
noruron†*	*N'*-(hexahydro-4,7-methanoindan-5-yl)-*N,N*-dimethylurea
orbencarb†	*S*-2-chlorobenzyl diethylthiocarbamate
oryzalin†+*	3,5-dinitro-*N*^{4}*N*^{4}-dipropylsulphanilamide

oxadiazon†+*	3-(2,4-dichloro-5-isopropoxyphenyl)-5-t-butyl-1,3,4-oxadiazolin-2-one
oxyfluorfen†+*	2-chloro-4-trifluoromethylphenyl 3-ethoxy-4-nitrophenyl ether
paraquat†+*	1,1′-dimethyl-4,4′-bipyridylium
pentachlorophenol*	pentachlorophenol
pebulate†+*	*S*-propyl *N*-butyl-*N*-ethyl(thiocarbamate)
pendimethalin†+*	*N*-(1-ethylpropyl)-2,6-dinitro-3,4-xylidine
pentanochlor†*	*N*-(3-chloro-4-methylphenyl)-2-methylpentanamide
perfluidone†+*	4′-(phenylsulphonyl)trifluoromethylsulphono-*o*-toluidide
phenisopham†	3-isopropoxycarbonylaminophenyl *N*-ethyl-*N*-phenylcarbamate
phenmedipham†+*	3-(methoxycarbonylamino)phenyl *N*-(3-methylphenyl)carbamate
phenmedipham-ethyl†*	3-ethoxycarbonylaminophenyl *N*-(3-methylphenyl)carbamate
phenobenzuron†*	*N*′-benzoyl-*N*′-(3,4-dichlorophenyl)-*N,N*-dimethylurea
picloram†+*	4-amino-3,5,6-trichloropicolinic acid
piperophos†*	*S*-2-methyl-1-piperidylcarbonylmethyl *O,O*-di-n-propylphosphorodithioate
piproctanyl†*	1-ally-1-(3,7-dimethyloctyl)piperidinium ion
pretilachlor†*	α-chloro-2,6-diethyl-*N*-(2-propoxyethyl)acetanilide
procyazine†+*	2-chloro-4-(1-cyano-1-methylethylamino)-6-cyclopropylamino-1,3,5-triazine
prodiamine†*	2,6-dinitro-N^1,N^1-dipropyl-4-trifluoromethyl-*m*-phenylenediamine
profluralin†+*	*N*-(cyclopropylmethyl)-2,6-dinitro-*N*-propyl-4-trifluoromethylaniline
proglinazine†*	*N*-(4-chloro-6-isopropylamino-1,3,5-triazin-2-yl)aminoacetate
prometon†*	4,6-bisisopropylamino-2-methoxy-1,3,5-triazine
prometryn†*	2,4-bis(isopropylamino)-6-methylthio-1,3,5-triazine
propachlor†+*	α-chloro-*N*-isopropylacetanilide
propanil†+*	*N*-(3,4-dichlorophenyl)propionamide
propazine†+*	2-chloro-4,6-bisisopropylamino-1,3,5-triazine
propham†+*	isopropyl *N*-phenylcarbamate
propyzamide†*	3,5-dichloro-*N*-(1,1-dimethylpropynyl)benzamide
prosulfalin†+*	*N*-(4-dipropylamino-3,5-dinitrophenylsulphonyl)-*S,S*-dimethylsulphimide
prynachlor†+*	2-chloro-*N*-(1-methyl-2-propynyl)acetanilide
pydanon†*	(±)-hexahydro-4-hydroxy-3,6-dioxopyridazin-4-ylacetic acid
pyrazoxyfen†	2-[4-dichlorobenzoyl)-1,3-dimethylpyrazol-5-yloxy]acetophenone
pyridate†*	octyl *O*-(6-chloro-3-phenylpyridazin-4-yl)carbonothioate
quinclorac†	3,7-dichloroquinoline-8-carboxylic acid
quinoclamine†*	2-amino-3-chloro-1,4-naphthoquinone
quinonamid†*	3-chloro-2-dichloroacetamido-1,4-naphthoquinone
quizalofop†	(*RS*)-2-[4-(6-chloroquinoxalin-2-yloxy)phenoxy]propionic acid
sebuthylazine†*	2-chloro-4-ethylamino-6-*s*-butylamino-1,3,5-triazine
secbumeton†+*	4-ethylamino-2-methoxy-6-*s*-butylamino-1,3,5-triazine
sethoxydim†	(±)2-[1-(ethoxyimino)butyl]-5-[2-(ethylthio)propyl]-3-hydroxy-2-cyclohexen-1-one
siduron†+*	*N*-(2-methylcyclohexyl)-*N*-phenylurea
simazine†+*	2-chloro-4,6-bisethylamino-1,3,5-triazine
simetryn†*	2,4-bis(ethylamino)-6-methylthio-1,3,5-triazine
SMA	sodium monochloroacetate
sulfallate†*	2-chloroally *N,N*-diethyldithiocarbamate
sulfometuron†	2-[3-(4,6-dimethylpyrimidin-2-yl)ureidosulphonyl]benzoic acid
sulglycapin†*	azepan-1-ylcarbonylmethyl methylsulphamate
swep+	methyl *N*-(3,4-dichlorophenyl)carbamate
2,4,5-T†+*	2,4,5-trichlorophenoxyacetic acid
2,4,5-TB†*	4-(2,4,5-trichlorophenoxy)butyric acid
2,3,6-TBA+*	2,3,6-trichlorobenzoic acid
TCA+*	trichloroacetic acid
tebuthiuron†+*	*N,N*′-dimethyl-*N*-(5-t-butyl-1,3,4-thiadiazol-2-yl)urea
tebutam†	*N*-benzyl-*N*-isopropylpivalamide
terbacil†+	5-chloro-6-methyl-3-t-butyluracil
terbucarb†*	2,6-di-t-butyl-*p*-tolyl *N*-methylcarbamate
terbuchlor†+*	*N*-butoxymethyl-α-chloro-6-t-butyl-*o*-acetoluidide
terbumeton†*	4-ethylamino-2-methoxy-6-t-butylamino-1,3,5-triazine
terbuthylazine†+*	2-chloro-4-ethylamino-6-t-butylamino-1,3,5-triazine
terbutryn†*	2-*tert*-butylamino-4-ethylamino-6-methylthio-1,3,5-triazine
tetrafluron†+*	*N,N*-dimethyl-*N*′-[3-(1,1,2,2-tetrafluoroethoxy)phenyl]urea
thiazafluron†*	1,3-dimethyl-1-(5-trifluoromethyl-1,3,4-thiadiazol-2-yl)urea
thidiazuron†*	*N*-phenyl-*N*′-(1,2,3-thiadiazol-5-yl)urea
thiobencarb†+*	*S*-(4-chlorobenzyl)*N,N*-diethylthiocarbamate
TIBA	2,3,5-triiodobenzoic acid
tiocarbazil†	*S*-benzyl di(*sec*-butyl)thiocarbamate
tralkoxydim†*	2-[1-(ethoxyimino)propyl]-3-hydroxy-5-mesitylcyclohex-2-enone
tri-allate†*	*S*-2,3,3-trichloroally*N,N*-di-isopropyl(thiocarbamate)

triasulfuron†*	1-[2-(2-chloroethoxy)phenylsulphonyl]-3-(4-methoxy-6-methyl-1,3,5-triazin-2-yl)urea
triazofenamide†*	5-phenyl-1-*m*-tolyl-1*H*-1,2,4-triazole-3-carboxamide
triclopyr†+*	3,5,6-trichloro-2-pyridyloxyacetic acid
tridiphane†	(±)-2-(3,5-dichlorophenyl)-2-(2,2,2-trichloroethyl)oxirane
trietazine†+*	2-chloro-4-diethylamino-6-ethylamino-1,3,5-triazine
trifluralin†+*	2,6-dinitro-*N*,*N*-dipropyl-4-trifluoromethylaniline
trifop†*	2-[4-(4-trifluoromethylphenoxy)phenoxy]propionic acid
trifopsime†	acetone(*R*)-*O*-(2-[4-(α,α,α-trifluoro-*p*-tolyloxy)phenoxy]propionyl)oxime
trimeturon†+	*N*′-(4-chlorophenyl)-*O*,*N*,*N*-trimethylisourea
tripropindan†*	6-isopropyl-1,1,4-trimethyl-5-propionylindane
vernolate†+*	*S*-propyl *N*,*N*-dipropyl(thiocarbamate)

C·A·B INTERNATIONAL
PUBLICATIONS AND SERVICES

GENERAL INFORMATION

C·A·B International (CABI, formerly the Commonwealth Agricultural Bureaux) is an international non-profit organization controlled by governments of member countries. Its main function is to provide a world-wide information service in agriculture, forestry and related areas of applied biology, sociology, economics, engineering and medicine. Two other scientific services are responsible for pest and disease identification, and the application of biological techniques to pest management, and a further new arm — the Development Services — formed in 1986, co-ordinates CABI's consultancy expertise. C·A·B International is best known for its abstract journals covering each of the main agricultural disciplines (for full list of titles see back cover). The wide range of other publications includes annotated bibliographies, reviews, authoritative books and reference works, and specialized aids to the management of pests and diseases.

Abstract Journals

The 47 abstract journals, which cover specific agricultural disciplines, specialist crops or products, or particular animals are all derived from the CABI production database. In 1988 input to the database will amount to approximately 140 000 records prepared from around 15 000 serials and many other scientific publications in virtually any language.

Annotated Bibliographies

Over 3000 annotated bibliographies on a wide variety of topics are available. Many are the result of requests and are in photocopy format with abstracts in chronological order but without indexes. Others, on particularly topical or popular subjects are typeset, the abstracts being classified and indexed; some are preceded by a review article. Annotated bibliography topics may be extended to current awareness profiles to ensure that the information base is kept up to date.

Online Searching

The CAB ABSTRACTS database is available for online searching at DIALOG (USA), BRS (USA), ESA/IRS (Italy), CAN/OLE (Canada), JICST (Japan) and DIMDI (FRG). CAB ABSTRACTS contains over 2 million records dating from 1972. Online retrieval is a highly cost-effective way of carrying out literature searches and provides users with a printout of records on their specific subjects. Search aids available include the comprehensive CAB ABSTRACTS Online Manual, the CAB Thesaurus and the CAB Serials Checklist.

Magnetic Tapes

The database is leased on magnetic tape on a calendar year basis by many organizations. The lease fee, payable in advance, includes usage to a pre-set limit; additional usage is charged for at the end of the year. Current tapes are delivered monthly, and retrospective tapes as required. Technical data and sample tapes are available.

SDI Service

SDI (Selective Dissemination of Information) is a regular current awareness service based on the most recent input to the database processed at the C·A·B International computer centre, i.e. 6-8 weeks in advance of publication in the abstract journals or availability through international online vendors. Subscribers decide their own search profile and receive search results at intervals of their own choice, e.g. monthly, quarterly, even weekly. The search printout contains full bibliographic details and an informative abstract for each record retrieved.

CAB Alerts

This new service is based on the SDI service described above. A number of standard profiles on topics of current interest is being offered.

Microfiche

The SDI service is available on COM (Computer Output on Microfiche). Specific topics can be used to generate either subject series, containing full bibliographic details and informative abstracts, or author series containing the bibliographic details. The cumulative COM service is provided quarterly.

Diskette

CABI appreciates that many of its information users are equipped with microcomputers. The SDI service has been extended to diskettes for the convenience of CABI customers. Diskettes, containing current input to the CABI production database, are issued weekly, monthly or quarterly.

CD-ROM

CABI has produced a CD-ROM prototype which has been on trial at over 40 key sites in 26 countries. User assessments, due June 1987, will be used to formulate CABI's future CD-ROM strategy. For further information please write to CABI's Marketing & Sales Division.

Document Delivery Service

The originals of most articles abstracted for the CAB ABSTRACTS database are available as photocopies. Order forms and copyright declarations are printed in each journal (or are available in bulk). Documents may also be ordered online via Dialog's DIALORDER or ESA's PRIMORDIAL.

Training

To help users get best value for money, C·A·B International provides user training and education. There is an annual course entitled 'Information on Agriculture' in Oxford, designed to give information officers and librarians, particularly from developing countries, a sound background in agricultural information practice. In addition, there are many one-day workshops in the USA, Europe and elsewhere, facilities for on-the-job training at the C·A·B International Centre, and tailor-made courses on data preparation for organizations supplying input for the database.

ORDERING INFORMATION

Journals

Subscriptions should be fully paid by 1 December for the volumes to be issued in the following year. Many journals are available at special rates to subscribers in member countries. A subscription provides entitlement to each part plus the annual index. Rates include packing and mailing by air to distant countries wherever the cost can be absorbed. Orders should be sent to the address below.
Back numbers, including microfiche editions, are available at discounted prices. Further details will be given on request.

Enquiries

For further information please contact:
Marketing & Sales Division,
C·A·B International, Wallingford, Oxon OX10 8DE, UK
Telephone: Wallingford (0491) 32111
Telex: 847964 (COMAGG G) Fax: (0491) 33508
Telecom Gold/International Dialcom: 84: CAU001
or. North American Office
Barbara Hutchinson
C·A·B International
845 North Park Avenue, Tucson,
Arizona 85719
Tel: Toll-free 800/528-4841 or
602/621-7897.

Printed by Unwin Brothers Ltd., The Gresham Press, Old Woking, Surrey, U.K.

The Leading World Information Service in Agriculture and Related Sciences

ABSTRACT JOURNALS AND SERIAL PUBLICATIONS 1988

Animal Science and Production

M Animal Breeding Abstracts
M Dairy Science Abstracts
A Index of Current Research on Pigs
M Nutrition Abstracts & Reviews Series B — Livestock Feeds & Feeding
Q Pig News & Information
M Poultry Abstracts
Q Small Animal Abstracts

Veterinary Science and Parasitic Diseases

H Animal Disease Occurrence
M Helminthological Abstracts Series A — Animal & Human Helminthology
M Index Veterinarius
M Protozoological Abstracts
M Review of Applied Entomology Series B — Medical & Veterinary
Q Review of Medical & Veterinary Mycology
M Veterinary Bulletin

Crop Science and Production

M Cotton & Tropical Fibres Abstracts
M Crop Physiology Abstracts
Q Faba Bean Abstracts
M Field Crop Abstracts
M Herbage Abstracts
M Horticultural Abstracts
Q Irrigation & Drainage Abstracts
A Lentil Abstracts
B Maize Abstracts
M Ornamental Horticulture
M Plant Breeding Abstracts
M Plant Growth Regulator Abstracts
M Potato Abstracts
B Rice Abstracts
M Seed Abstracts
M Soil & Fertilizers
B Sorghum & Millets Abstracts
M Soyabean Abstracts
M Tropical Oil Seeds Abstracts
B Wheat, Barley & Triticale Abstracts

Forestry

Q Agroforestry Abstracts
M Forest Products Abstracts
M Forestry Abstracts

Crop Protection

Q Biocontrol News & Information
Q Bulletin of Entomological Research[1]
H Distribution Maps of Pests
H Distribution Maps of Plant Diseases
Q Helminthological Abstracts Series B — Plant Nematology
M Review of Applied Entomology Series A — Agricultural
M Review of Plant Pathology
M Weed Abstracts

Economics, Development and Sociology

Q Leisure, Recreation & Tourism Abstracts
Q Rural Development Abstracts
H Rural Extension, Education & Training Abstracts
M World Agricultural Economics & Rural Sociology Abstracts

Machinery and Buildings

M Agricultural Engineering Abstracts

Food and Nutrition

M Food Science & Technology Abstracts (published by the International Food Information Service — IFIS)
M Nutrition Abstracts & Reviews Series A — Human & Experimental

Biotechnology

Q Biodeterioration Abstracts

Taxonomy

H Bibliography of Systematic Mycology
H Descriptions of Pathogenic Fungi & Bacteria
H Index of Fungi
H Systema Ascomycetum

A = Annual B = Bi-Monthly H = Half-yearly M = Monthly Q = Quarterly
[1] Primary journal

Copyright
© *C·A·B International*, 1988. All rights reserved. No part of this publication may be reproduced in any form or by any means, electronically, mechanically, by photocopying, recording or otherwise, without the prior permission of the copyright owner.